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# **Deafness: Predicting the future for Scotland**

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## Preface

This is the first phase of deafscotland's ongoing commitment to research into all aspects of social influences that affect our community. This first phase established a scientifically based number of people in the 4 pillar model deafscotland deals with and predicts these numbers into the future.

The 4 pillars in our community are:

- Deaf, BSL users
- Deafblind
- Deafened
- Hard of hearing



Janis McDonald

In the next phase we will publish this year research funded by the Lifechanges Trust and supervised by Queen Margarets University on how many deaf people are likely to be affected by dementia in each local council area and combine this with experiences from the Heads of Audiology of Scotland's NHS trusts. From then on we will spread our research efforts into many other fields, starting with social isolation.

We hope the figures will be interesting and helpful in a number of settings, national & local and remind everyone the figures are actual people with communication and language barriers.

We envisage public planners will see the need to factor the scale and implications of this work into various strategies, plans and actions and the private sector will better understand customer needs.

We are working jointly to raise the issue of deaf awareness, communication issues and build better solutions. We do hope you can help. If everyone makes some adjustments it will very much help to level the playing field for those affected by deafness and those with other communication barriers too.

**Janis McDonald**

Chief Officer @ deafscotland

**Scotland's Census.** The **census** collects information about the characteristics of people and households in the country. It is used by central and local government, health authorities and many other organisations to allocate resources and plan services for everyone.

—NATIONAL RECORDS OF SCOTLAND:  
[HTTPS://WWW.NRSCOTLAND.GOV.UK/STATISTICS-AND-DATA/CENSUS](https://www.nrscotland.gov.uk/statistics-and-data/census)

## 1 Introduction

The exact numbers of deaf people in Scotland varies depending upon which source is consulted. This lack of clarity is problematic when it comes to planning for delivery of future services and it is widely recognised that there is a need to establish better reporting procedures in order to capture relevant statistics. To this end, this research has sought to investigate the source with which the Scottish Government makes policy decisions; the source that is used to 'allocate resources and plan services' in Scotland: The 2011 Census for Scotland (Office for National Statistics 2011). As the next Census will be taken in 2021, it would seem timely to look at what information this source currently offers on the prevalence of hearing loss in Scotland and how far it relates to the wider picture. How far does the above definition of the aims and objectives of the Census fit to enable precise data to be captured and recorded and as a result ensure optimum service planning and provision for those with hearing loss in Scotland.

## 2 Additional Data Sources

While the aim of this report is to use the results of the 2011 Census it has, of course, been necessary to consult other sources to set any findings in context. It is widely accepted that presently it is difficult to gain exact numbers of deaf people in the UK in general and, at best, estimates from a combination of sources are required to provide a fuller picture. To give as broad a picture as possible the following information sources were consulted:

### 2.1 2011 Census

The questionnaire for the 2011 census was completed by households in Scotland on 27 March 2011 and a sample can be viewed at <http://www.scotlandscensus.gov.uk>

## 2.2 Academic works

- Michael A. Akeroyd., Kay Foreman, and Jack A. Holman. "Estimates of the number of adults in England, Wales, and Scotland with a hearing loss." *International journal of Audiology* 53, 1 (2014): 60-61.
- Adrian Davis. *Hearing in adults: the prevalence and distribution of hearing impairment and reported hearing disability in the MRC Institute of Hearing Research's National Study of Hearing*. London: Whurr Publishers, 1995.
- Adrian Davis. "The prevalence of hearing impairment and reported hearing disability among adults in Great Britain." *International Journal of Epidemiology* 18, no. 4 (1989): 911-917.

## 2.3 Reports

- Action on Hearing Loss. 'Hearing Matters.' Scotland. 2015. London: Action on Hearing Loss. Can be viewed at: <https://www.actiononhearingloss.org.uk/-/media/ahl/documents/research-and-policy/reports/hearing-matters-scotland-supplement.pdf>.
- Deaf Scotland publications can be viewed at: <http://www.scod.org.uk/faqs/statistics/>
- Deafblind Scotland statistics can be found at: <https://dbscotland.org.uk/resources/>
- Sense Scotland resources can be viewed at: <https://www.sensescotland.org.uk/resources/publications/>
- Jeanine Bezuijen, "Deafness in Scotland". Analytical consultancy work for Deaf Action, Albany Street, Edinburgh. Final version, 25 July 2016.

## 3 The Four Pillars of Deafness

To ensure that the whole spectrum of deafness is included and to emphasise the diversity required in terms of the range of services needed for those with hearing loss in Scotland, this report will adhere to the 'Four Pillars of Deafness' model. This model underpins the work of DeafScotland and each of these 'pillars' will now be discussed in turn.

Figure 1: The Four Pillars of Deafness



### 3.1 British Sign Language users

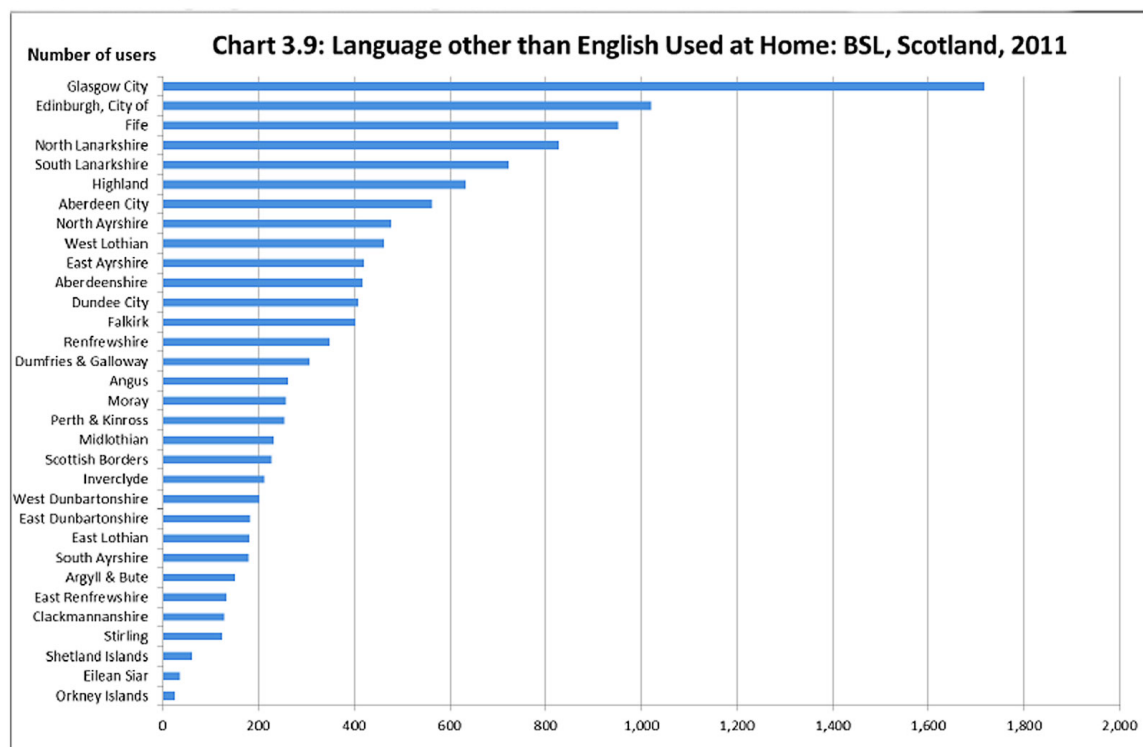
People who identify as BSL users would have been deaf at birth or from early childhood, as a consequence British Sign Language (BSL) is their first language. To a greater extent than any of the other categories of deafness, BSL users normally identify with a unique Deaf Culture. For the first time in its' history, the 2011 Census included questions directly related to BSL. In the 2011 Census respondents were asked if they used BSL at home. Question 18: 'Do you use a language other than English at home?' invited respondents to tick 'Yes' if they used BSL at home or specify if they used another language. This is the first time such a question has been asked and therefore the first time statistics on BSL usage can be gained from the Census. Some 12,533 respondents answered that they used BSL at home. A breakdown of the figures by Local Authority is included in figure 2 on page 5 below:

Detailed analysis in relation to the recording of BSL statistics from the census has already been carried out, and can be found, for example, at: <https://www.webarchive.org.uk/wayback/archive/20170701074158/http://www.gov.scot/Publications/2014/03/7340/26#c3.9>

It should be noted, however, that there is ambiguity in terms of the Census question as it cannot be assumed that all respondents who ticked 'yes' to using BSL at home were in fact Deaf. It has been argued that it is most probable that the figure 'includes people who are not themselves deaf but live with someone who uses BSL as their first language' (Bezuijen 2016).

Following a consultation process, The National Records for Scotland has addressed this ambiguity and recognises the need for additional Census questions relating to BSL. In the report

Figure 2: Source: www.gov.scot



‘Plans for Scotland’s Census 2021’ it is stated that ‘for 2021, a need for information on use of British Sign Language (BSL), in addition to use ‘at home’ has been highlighted for policy development and monitoring and legislative work, specifically for monitoring under the BSL (Scotland) Act 2015. To meet user need in 2021, a new question on British Sign Language use is proposed’. It is likely, then, that the question(s) relating to BSL usage will provide more nuanced data and a truer reflection of BSL users in Scotland which, in turn, should allow a better and more specific service provision.

See: [https://www.scotlandscensus.gov.uk/documents/census2021/Plans\\_for\\_Scotlands\\_Census\\_2021.pdf](https://www.scotlandscensus.gov.uk/documents/census2021/Plans_for_Scotlands_Census_2021.pdf)

## 3.2 People who are deafblind

There are various types of deafblindness, also termed ‘dual sensory loss’. Firstly Congenital which is a term used to describe: children who born with hearing loss and sight loss or acquire these two conditions prior to language development. The next type of deafblindness is Acquired, people in this category are either:

- born deaf and experience sight loss later;

- born blind who become deaf later in life;
- or it could apply to those who have lost their sight and hearing later in life.

In addition to Congenital and Acquired, deafblindness can also be due to Usher's Syndrome and CHARGE (Deafblind Scotland 2019).

At present the census does not include any questions which allow respondents to identify with this category of deafness and as such no adequate census data can be gathered for this group. Deafblind Scotland state:

We estimate there are around 5,000 people in Scotland with a dual sensory impairment. Relatively few people are totally deaf and totally blind many have a little hearing and/or sight left.  
—DEAFBLIND SCOTLAND (2018)

However, while there are no definitive statistics on the numbers of deafblind people in Scotland, the Centre for Disability Research at Lancaster University published a study relating to estimated deafblindness figures in the UK. This comprehensive study provides upper and lower estimates for deafblindness in the UK (Robertson & Emerson 2010). Bezuijen (2016) applied this research to population projections and produced upper and lower estimates for Scotland over time. Estimates of the number of deafblind people in Scotland in 2019 range from 12,800 (lower estimate) to 34,000 (upper estimate). The majority here (for both lower and upper estimates) are over the age of 60 and thus follow a similar pattern to general age-related deafness.

### **3.3 People who are deafened**

People who are deafened are those who become deaf after learning to speak. Deafness here can be the result of an accident or trauma or might be a side-effect of an illness. People in this category lose hearing suddenly and are sometimes described as having Acquired Profound Hearing Loss (APHL).

At present the Census does not include any questions that would apply to people with this type of deafness. While deafened people may well have identified with and responded to the general question relating to hearing loss as a long term health condition, there is no way of separating them from the larger cohort. As such it is not possible to obtain figures for this group. DeafScotland estimate that there are 123,000 deafened people in Scotland.

### 3.4 People who are hard of hearing

The term 'hard of hearing' is used to describe those whose hearing loss is mild to moderate. In general terms those who are hard of hearing lose their hearing gradually over time. The category includes those with age-related hearing loss and as such, in terms of numbers, it is the largest of all 4 Pillars of Deafness.

At present the Census does not include any questions that would directly capture people with this type of deafness. While those with this type of hearing loss may well have identified with and responded to the general question relating to hearing loss as a long term health condition, there is no way of separating them from the larger cohort. As such it not possible to obtain detailed figures for this group.

The closest estimate we have to the year 2011 is Bezuijen's 2014 Davis Model prediction of 534500 of hard of hearing.

## 4 Procedure

1. Firstly, analyse the 2011 Census, looking at respondents who have indicated they have a 'long term health issue' and selected 'deafness or partial hearing loss' and also those who indicated that they use BSL at home.
2. As has been stated the problematic nature of gaining comprehensive numbers for deaf people is widely known. In order to give as accurate a picture of numbers as possible, the Davis model will be used. Although published in 1995, Adrian Davis' comprehensive study on the prevalence of deafness in the UK population is still the bench mark for statistics in this field (Davis 1995). The criteria Davis set out in his study was a loss of hearing of 35dB minimum in the better ear of respondents. He argued that this was the level that would require intervention of some kind (hearing aid etc) and thus was a good measure for hearing loss. Davis established percentages of prevalence for pre-defined age groups.

Age Groups used by Davis:

- 18-30
- 31-40
- 41-50
- 51-60
- 61-70
- 71-80

This work was refined in 2014, when Akeroyd et al. (2014), using the 2011 Census data, applied the prevalence rate criteria that Davis had set out in 1995 and calculated estimated



hearing loss for the UK population. In this report the categories set out by Davis were followed, with no prevalence calculated for those under the age of 18 or over the age of 80. Akeroyd et al. (2014), however, argued that Davis (1995) had in fact factored a percentage for those over 80, that age group having an 81% prevalence rate. Using this Akeroyd produced estimated figures for prevalence based on the 2011 census figures.

In the 2016 report, 'Deafness in Scotland', Jeanine Bezuijen took these prevalence rates and applied them to the National Records of Scotland (National Records of Scotland 2020) population projections for Scotland until 2039. From this amalgamation, it was possible to project the prevalence rates for Scotland over time for each age group. Using Davis (1995)' original age groups and including the category of 'over 80' (with prevalence of 81%) Benzuijen was able to project general hearing loss prevalence rates for Scotland up to 2039.

This useful methodology has been applied and expanded upon within this report to project prevalence rates for Local Authorities. By using 2016-based populations predictions from the National Records Office (National Records of Scotland 2020) and applying these to the prevalence rates set out by Davis, an analysis of the years 2018, 2028 and 2038 was carried out. It was the intention to establish the overall trend for hearing loss prevalence, across this 20 year period for all 32 Councils in Scotland.

## **5 Findings – Status as at 2011 according to Census Figures**

A total of 350,954 people indicated that they have a hearing loss in response to this question. This number equates to 6.6% of the population of Scotland. While, due to reliance upon self-reporting, there is disparity between this figure and the estimated number of people with hearing loss in Scotland, the census figures reflect the overall trend and, as will be shown, with adjustment it serves as a very useful starting point. For an overview how this falls into age groups please see figure 3.

### **5.1 Break-down of figures by Council**

From analysis it was found that Glasgow City has the highest amount of respondents in this category, with a total number of 36,095. The lowest figure being the Shetland Islands with 1,492. Inverclyde reports the highest percentage of people with deafness or partial hearing loss with 8.88%, the Council with lowest percentage figure is the City of Edinburgh with 5.9% (see tables 1, 2 and figure 5). For Scotland as a whole, according to the 2011 Census, the percentage of people with a long term hearing loss (deafness or partial hearing loss) in the country is 7.08% (figure 4).



Figure 3: Source: 2011 Census

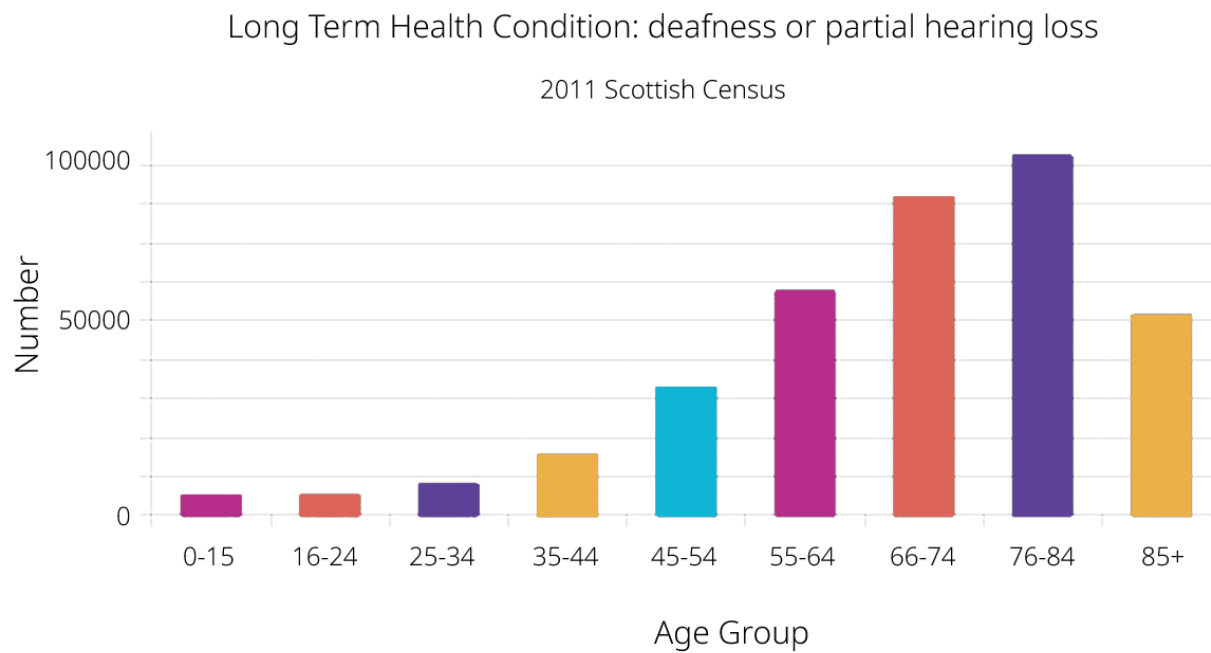


Figure 4: Councils and numbers of people that reported "deafness and partial hearing loss"

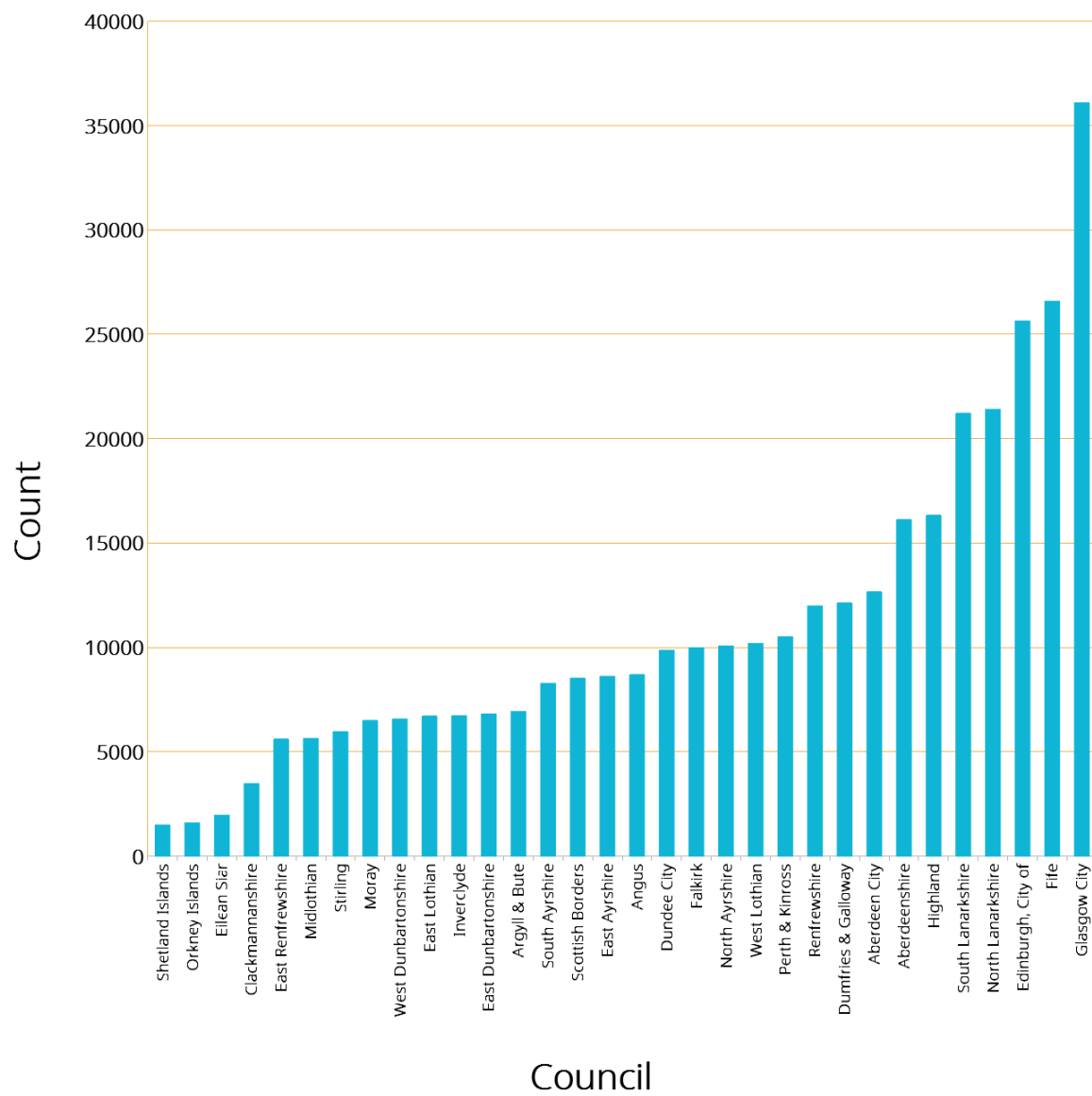


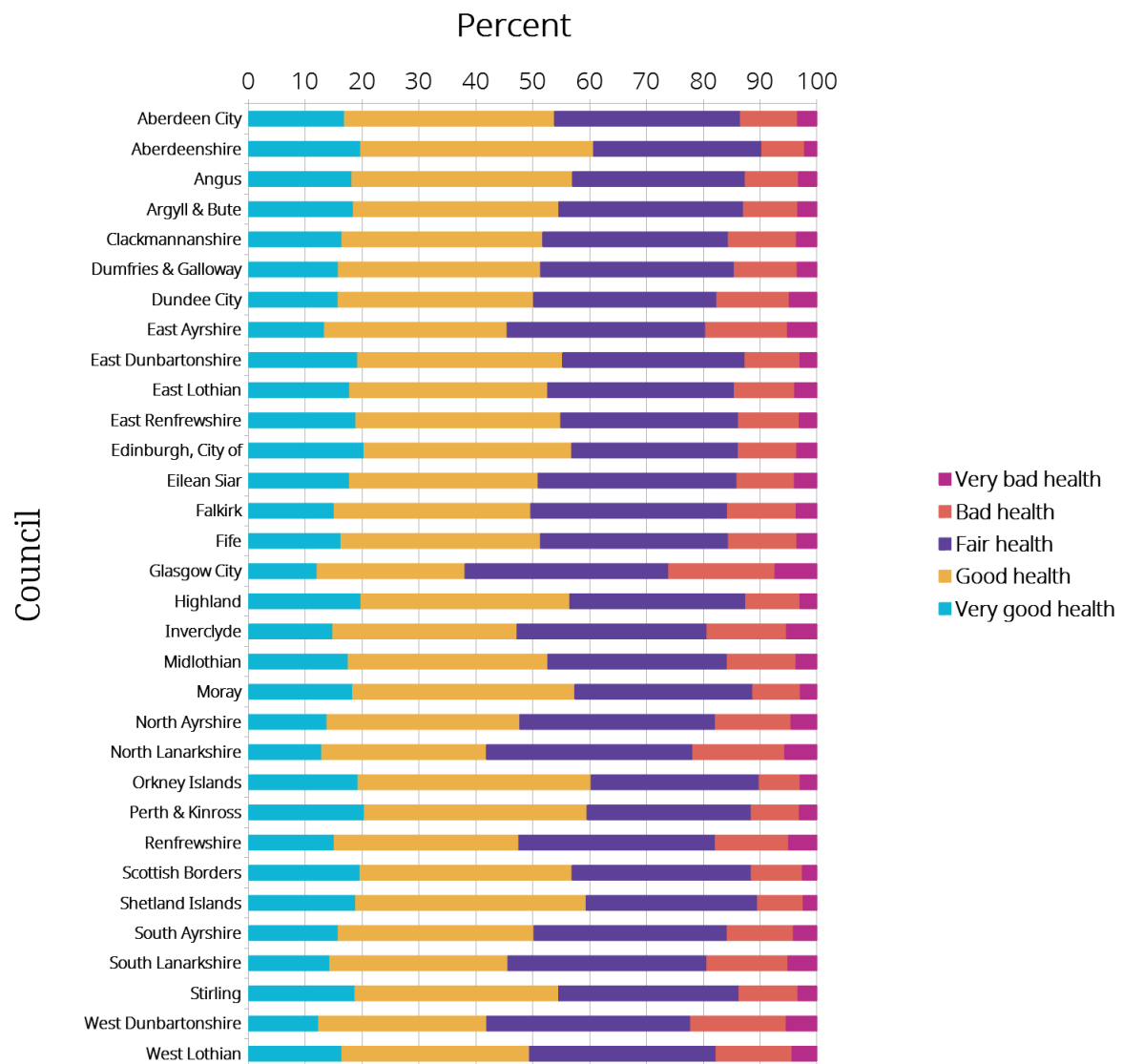
Table 1: Councils and Status of Health of people that reported "deafness and partial hearing loss"

Councils	All	Very good health	Good health	Fair health	Bad health	Very bad health
Aberdeen City	12671	2138	4682	4142	1275	434
Aberdeenshire	16129	3180	6609	4772	1216	352
Angus	8701	1582	3377	2644	815	283
Argyll & Bute	6931	1278	2506	2250	662	235
Clackmannanshire	3477	571	1228	1136	417	125
Dumfries & Galloway	12135	1916	4320	4130	1348	421
Dundee City	9864	1553	3392	3180	1258	481
East Ayrshire	8615	1151	2768	3008	1241	447
East Dunbartonshire	6813	1307	2455	2187	660	204
East Lothian	6718	1195	2340	2206	714	263
East Renfrewshire	5614	1060	2023	1756	599	176
Edinburgh, City of	25640	5201	9375	7518	2630	916
Eilean Siar	1961	348	651	686	198	78
Falkirk	9986	1502	3457	3452	1208	367
Fife	26584	4317	9339	8788	3198	942
Glasgow City	36095	4351	9395	12928	6760	2661
Highland	16337	3229	6004	5052	1562	490
Inverclyde	6730	998	2181	2249	942	360
Midlothian	5640	989	1980	1780	682	209
Moray	6503	1189	2542	2037	545	190
North Ayrshire	10070	1390	3415	3466	1340	459
North Lanarkshire	21406	2753	6205	7771	3458	1219
Orkney Islands	1593	307	653	471	115	47
Perth & Kinross	10509	2140	4118	3036	890	325
Renfrewshire	11987	1804	3894	4146	1547	596
Scottish Borders	8528	1671	3182	2689	768	218
Shetland Islands	1492	281	605	450	120	36
South Ayrshire	8279	1305	2851	2815	965	343
South Lanarkshire	21219	3035	6647	7424	3028	1085
Stirling	5965	1117	2136	1894	619	199
West Dunbartonshire	6572	810	1943	2357	1106	356
West Lothian	10190	1672	3364	3345	1362	447
<b>Total</b>	<b>350954</b>	<b>57340</b>	<b>119637</b>	<b>115765</b>	<b>43248</b>	<b>14964</b>

Table 2: Councils by percent of people that reported "deafness and partial hearing loss" and total response rate of people in the 2011 Census

Councils	deafness and partial hearing loss	Total Population	Percent
Aberdeen City	12671	208800	6.07%
Aberdeenshire	16129	241600	6.68%
Angus	8701	109800	7.92%
Argyll & Bute	6931	83200	8.33%
Clackmannanshire	3477	49100	7.08%
Dumfries & Galloway	12135	144500	8.40%
Dundee City	9864	135000	7.31%
East Ayrshire	8615	116500	7.39%
East Dunbartonshire	6813	99600	6.84%
East Lothian	6718	95900	7.01%
East Renfrewshire	5614	85400	6.57%
Edinburgh, City of	25640	434300	5.90%
Eilean Siar	1961	26100	7.51%
Falkirk	9986	148300	6.73%
Fife	26584	347500	7.65%
Glasgow City	36095	527700	6.84%
Highland	16337	218200	7.49%
Inverclyde	6730	75800	8.88%
Midlothian	5640	79900	7.06%
Moray	6503	87800	7.41%
North Ayrshire	10070	130600	7.71%
North Lanarkshire	21406	316500	6.76%
Orkney Islands	1593	20000	7.97%
Perth & Kinross	10509	138400	7.59%
Renfrewshire	11987	163700	7.32%
Scottish Borders	8528	109800	7.77%
Shetland Islands	1492	22100	6.75%
South Ayrshire	8279	107500	7.70%
South Lanarkshire	21219	300600	7.06%
Stirling	5965	84900	7.03%
West Dunbartonshire	6572	85100	7.72%
West Lothian	10190	164700	6.19%
Total	350954	4958900	7.08%

Figure 5: Councils and Status of Health of people that reported "deafness and partial hearing loss"



## 5.2 Breakdown of numbers for Health Boards

A full breakdown of numbers for each Health Board can be found in figures 6, 7 and table 3.

Dumfries and Galloway indicate the highest number of deaf people within the local authority population, with 8.02% indicating hearing loss. Lothian had the lowest in this respect, with 5.77% indicating hearing loss.

It is evident that the numbers of those who identified as having a hearing loss increases markedly from the 45-54 age group upwards. In terms of the 45-54 age group, 3.75% of the population of Grampian and 4.66% of the population of Fife identified as having a hearing loss. This proportion increased sharply in the next 55+ group, where 17.09% of the Orkney and Shetland population reported hearing loss, rising to 19.14% in Fife.

Figure 6: Percentage of people that reported "deafness and partial hearing loss" by age sorted by health board

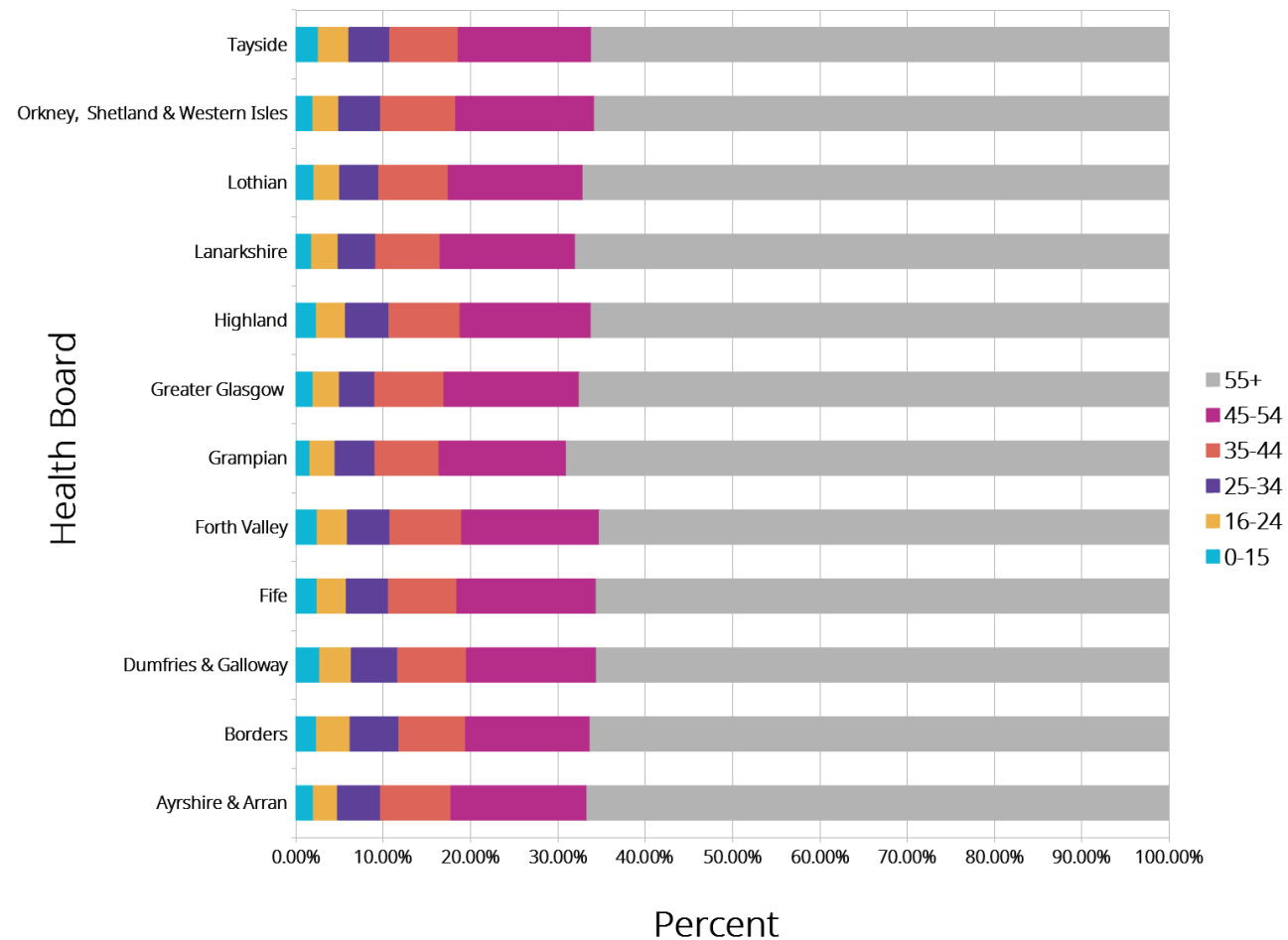
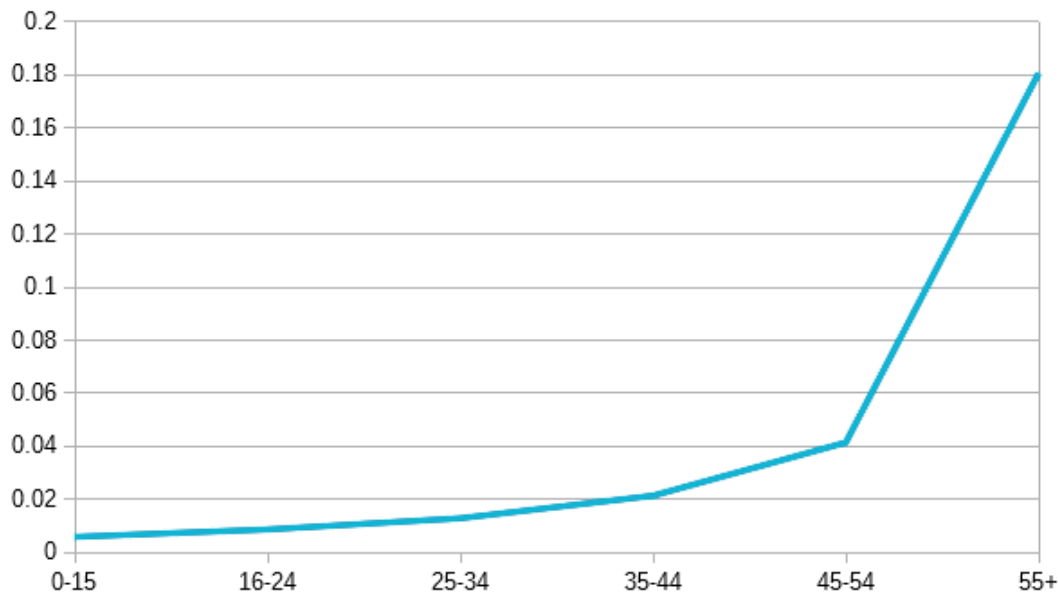


Table 3: People that reported "deafness and partial hearing loss" by age sorted by health board

Health Board	All people	0 to 15	16 to 24	25 to 34	35 to 44	45 to 54	55 and over
<b>Ayrshire &amp; Arran</b>							
Total	373,712	64,462	39,948	38,935	50,342	56,818	123,207
Deafness	26,964	350	300	518	1,105	2,401	22,290
Percentage	7.22%	0.54%	0.75%	1.33%	2.19%	4.23%	18.09%
<b>Borders</b>							
Total	113,870	19,341	10,292	10,110	15,414	17,971	40,742
Deafness	8,528	121	105	149	313	679	7,161
Percentage	7.49%	0.63%	1.02%	1.47%	2.03%	3.78%	17.58%
<b>Dumfries &amp; Galloway</b>							
Total	151,324	25,164	14,583	14,120	18,773	23,175	55,509
Deafness	12,135	192	148	210	415	966	10,204
Percentage	8.02%	0.76%	1.01%	1.49%	2.21%	4.17%	18.38%
<b>Fife</b>							
Total	365,198	64,397	42,525	41,589	50,480	54,159	112,048
Deafness	26,584	454	415	587	1,155	2,522	21,451
Percentage	7.28%	0.71%	0.98%	1.41%	2.29%	4.66%	19.14%
<b>Forth Valley</b>							
Total	297,679	53,725	34,434	34,427	43,587	44,801	86,705
Deafness	19,428	357	324	456	974	1,921	15,396
Percentage	6.53%	0.66%	0.94%	1.32%	2.23%	4.29%	17.76%
<b>Grampian</b>							
Total	569,061	96,568	70,854	76,396	79,836	82,943	162,464
Deafness	35,303	401	523	898	1,509	3,111	28,861
Percentage	6.20%	0.42%	0.74%	1.18%	1.89%	3.75%	17.76%
<b>Greater Glasgow</b>							
Total	1,135,958	192,677	150,424	158,375	157,140	169,018	308,324
Deafness	73,811	1,073	1,274	1,806	3,515	7,389	58,754
Percentage	6.50%	0.56%	0.85%	1.14%	2.24%	4.37%	19.06%
<b>Highland</b>							
Total	320,298	55,833	30,407	33,395	41,788	49,404	109,471
Deafness	23,268	349	269	444	909	1,977	19,320
Percentage	7.26%	0.63%	0.88%	1.33%	2.18%	4.00%	17.65%
<b>Lanarkshire</b>							
Total	651,557	120,366	71,294	79,826	95,416	99,821	184,834
Deafness	42,625	592	593	937	1,925	4,227	34,351
Percentage	6.54%	0.49%	0.83%	1.17%	2.02%	4.23%	18.58%
<b>Lothian</b>							
Total	834,648	141,886	110,432	124,484	120,691	118,001	219,154
Deafness	48,188	757	837	1,437	2,483	4,701	37,973
Percentage	5.77%	0.53%	0.76%	1.15%	2.06%	3.98%	17.33%
<b>Orkney, Shetland &amp; Western Isles</b>							
Total	72,200	12,775	7,001	7,404	9,699	10,926	24,395
Deafness	5,046	64	54	92	217	451	4,168
Percentage	6.99%	0.50%	0.77%	1.24%	2.24%	4.13%	17.09%
<b>Tayside</b>							
Total	409,898	69,137	50,294	48,266	51,588	59,719	130,894
Deafness	29,074	489	485	620	1,116	2,509	23,855
Percentage	7.09%	0.71%	0.96%	1.28%	2.16%	4.20%	18.22%

Figure 7: Proportion of people that reported "deafness and partial hearing loss" by age averaged over all health boards



### 5.3 Overall Health of Respondents

Of the 350,492 who identified as having deafness or partial hearing loss, 57,340 reported as being in "very good health"; 119, 637 in "good health"; 115,765 in "fair health"; 43, 248 in "bad health" and 14, 964 in "very bad health". More detail in relation to this can be found in table 2. Please note that percentages have been taken from the census counts and that the response rate for Scotland was estimated as 93.7%

Respondents with two or more long-term health conditions 199,123 or 56.8% of those who list long term health condition deaf or partial hearing indicate they have 2 or more health conditions. 52,548 of these respondents indicate blindness or partial sight loss in addition to deafness partial hearing. This figure does not indicate the number of people in Scotland who are Deafblind as there is no mechanism in the 2011 census for indicating this.

23.333 or 6.7% of those who list long term health condition deaf or partial hearing indicate that they also have a mental health condition (table 4). 82,099 or 23.4% indicate that in addition to deafness or partial hearing they also have a physical disability,



Table 4: All people with two or more long-term health conditions

	All people with two or more long-term health conditions
All people with two or more long-term health conditions	458,272
All people with two or more long-term health conditions including deafness or partial hearing loss	199,123
Has blindness or partial sight loss	52,548
Has a developmental disorder	1,748
Has a physical disability	82,099
Has a mental health condition	23,233
Has a learning difficulty	7,313
Has a learning disability	3,265
Has a long-term illness, disease or other condition	136,825

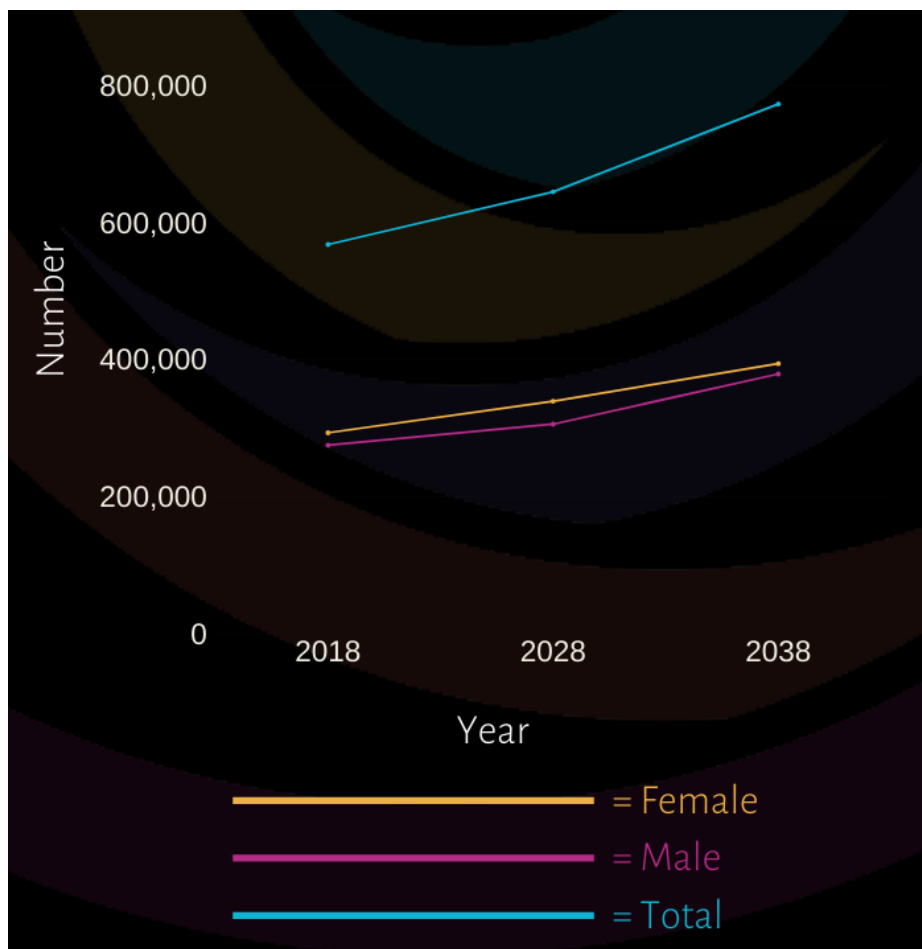
## 6 Future Predictions

Population estimates and predictions for the years 2018, 2028 and 2038 were obtained from the NROS (National Records of Scotland 2020) . 2016-based figures were used. These figures were sorted into the age groups specified by Davis. Thereafter, percentages summarised by Akeroyd were calculated and prevalence rates were obtained for each Council in Scotland.

Figure 8 on page 19 shows the predicted population results. Graphs depicting the trend for each Council are attached in section 8 and a breakdown of the figures for each particular age group are noted also.

In general terms it is clearly evident that the age group which sees most increase over the 20 year period is the 81+ category with the rate doubling for some Councils. The lower age bands either remain relatively static over the period for most Councils or in fact shows a small decline. This trend is indicative of an ageing population and supports the assumption of earlier research.

Figure 8: Projected number of Deaf people in Scotland: 2018-2038 Estimate based on projections by the National Records of Scotland and hearing loss prevalence rates by Davis (1995).



## 7 Summary on the number of deaf people in Scotland

**Scotland's Census.** The **census** collects information about the characteristics of people and households in the country. It is used by central and local government, health authorities and many other organisations to allocate resources and plan services for everyone.

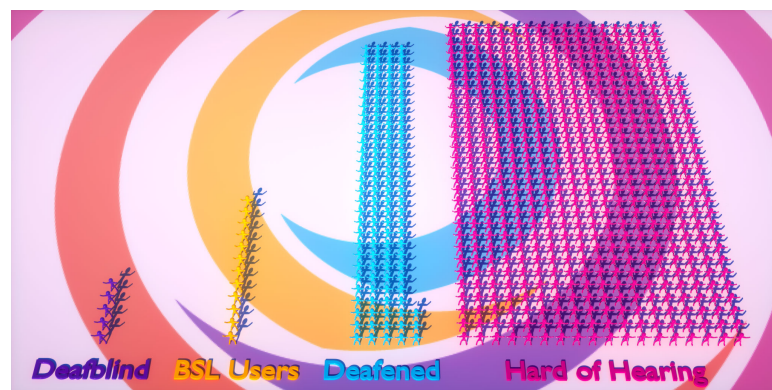
—NATIONAL RECORDS OF SCOTLAND:  
[HTTPS://WWW.NRSCOTLAND.GOV.UK/STATISTICS-AND-DATA/CENSUS](https://www.nrscotland.gov.uk/statistics-and-data/census)

In summation and by returning to the definition of the Scottish Census offered in the first page of this report, it has become apparent that for the deaf community this definition is not being met. The Census as it stands in the current format does not give the whole picture of numbers with hearing loss in Scotland. At present there are only 2 questions that would enable recording of hearing loss, these questions would need to be refined to allow more detailed data to be obtained. As has been demonstrated in this analysis, the prevalence in the higher age groups is not reported and therefore not charted statistically. It has been possible to project figures into the future by using Davis' work, however, although it is the standard source, it is from 1995 and as both Akeroyd and Bezuijen state, it is not possible to fully guarantee the accuracy of the calculations or gauge how applicable they are to the present day situation. This aside, however, the figures that are generated using Davis' method would seem more reflective of population trends and of the estimates of hearing loss in Scotland which other sources suggest.

The 2011 Census was the first to include a question relating to usage of BSL and from this it has been possible to capture some very useful data. It has been noted, however, that further questions need to be devised to capture a more accurate picture of BSL users in Scotland. A Consultation process has resulted in a specific line of questions for the upcoming Census which will be an advantage in terms of firming up numbers for this category. The remaining 3 Pillars of Deafness would benefit from nuanced questions also. The diversity of each of the pillars means that each requires dedicated service provision and this can only be provided if detailed demographics are captured.

As such a possible scenario for the number of people in each pillar is presented in figure 9 on page 21.

Figure 9: The number of cases in each pillar. Each figure represents one thousand people. For the deafblind we took the number of people that have been quoted by deafblind Scotland.

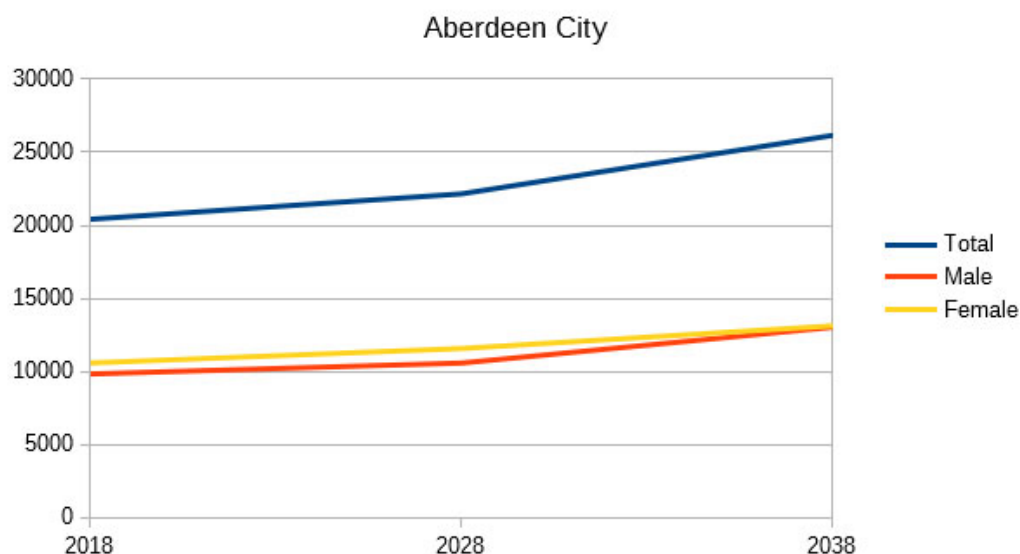


## 8 Number of people with hearing loss in Scotland in each Council

### 8.1 Projected number of people with hearing loss per Council Area 2018-2038

#### 8.1.1 Aberdeen City

Figure 10: Projected number of people with hearing loss in Aberdeen City Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

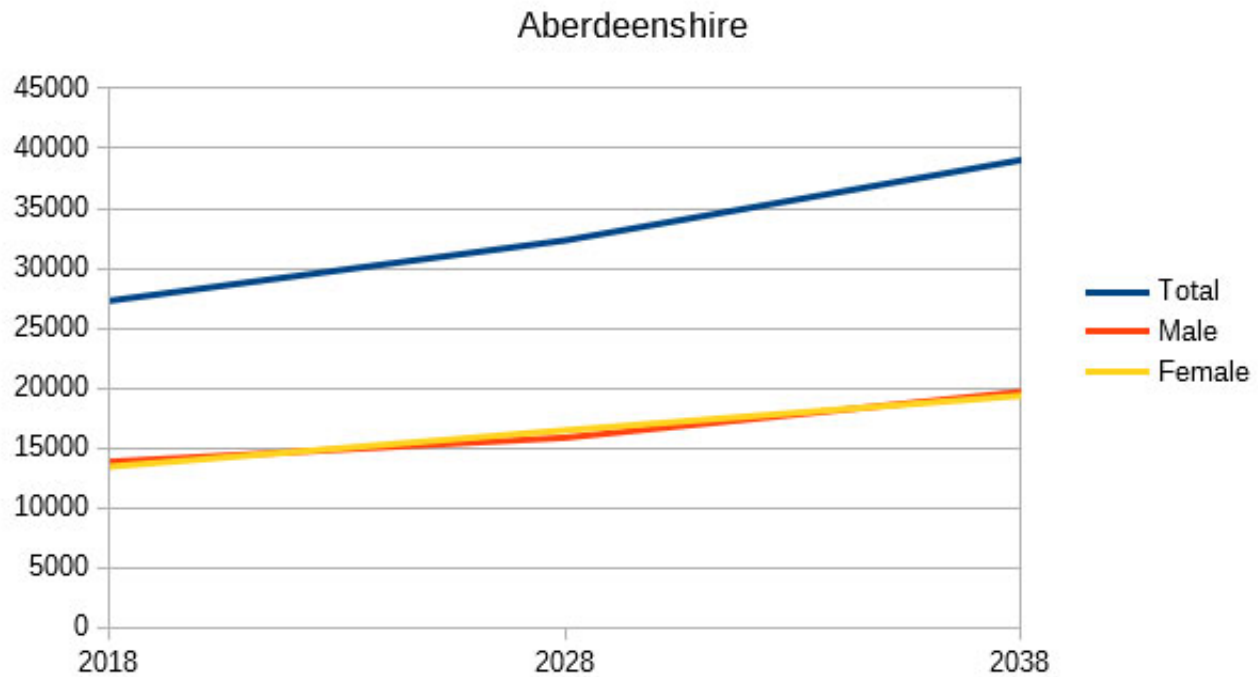


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	28	330	616	1497	2196	2653	2509	9828
Female	167	210	506	754	1475	3082	4389	10583
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	23	376	706	1391	1570	3423	3089	10578
Female	144	227	574	673	1651	3530	4774	11573
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	25	312	805	1572	2169	3776	4365	13024
Female	152	187	621	756	1481	4040	5884	13122

Table 5: Projected number of people with hearing loss in Aberdeen City Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

## 8.1.2 Aberdeenshire

Figure 11: Projected number of people with hearing loss in Aberdeenshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

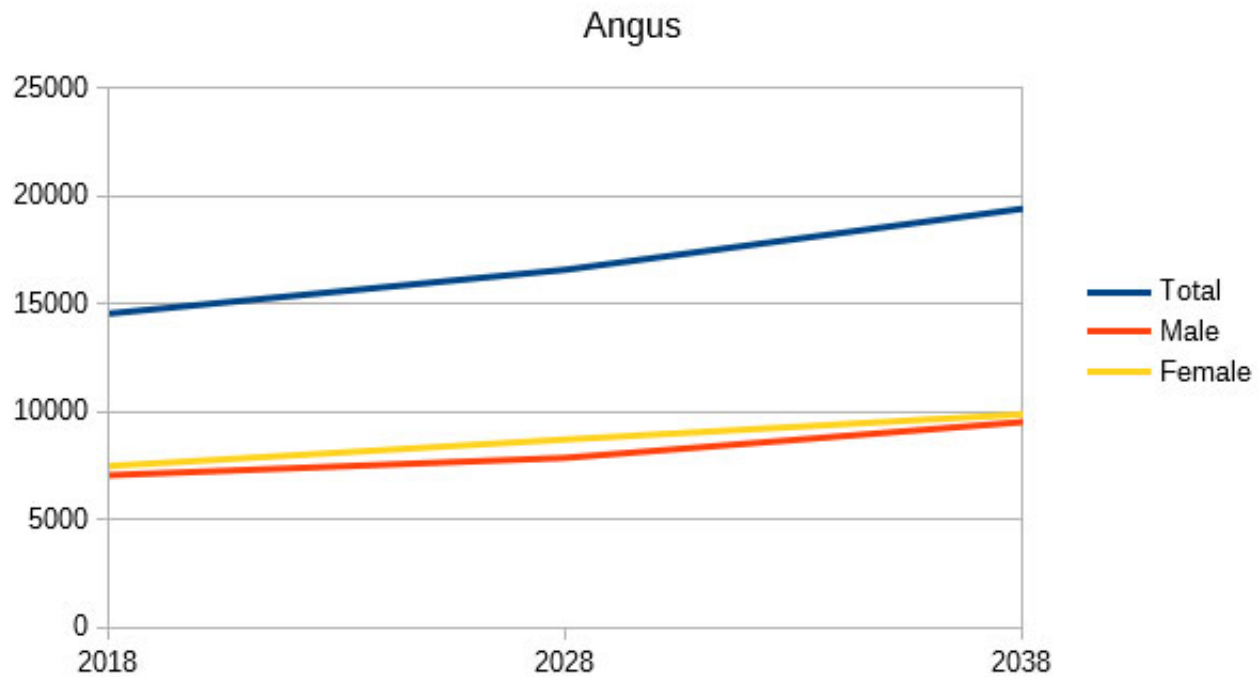


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	19	286	810	2075	3119	4120	3413	13842
Female	102	212	711	1046	2133	4244	4990	13437
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	18	324	831	1971	2323	5217	5169	15834
Female	96	230	729	995	2403	5277	6738	16469
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	19	285	935	2038	3272	5957	7164	19671
Female	103	197	789	1030	2275	6078	8876	19348

Table 6: Projected number of people with hearing loss in Aberdeenshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.3 Angus

Figure 12: Projected number of people with hearing loss in Angus Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



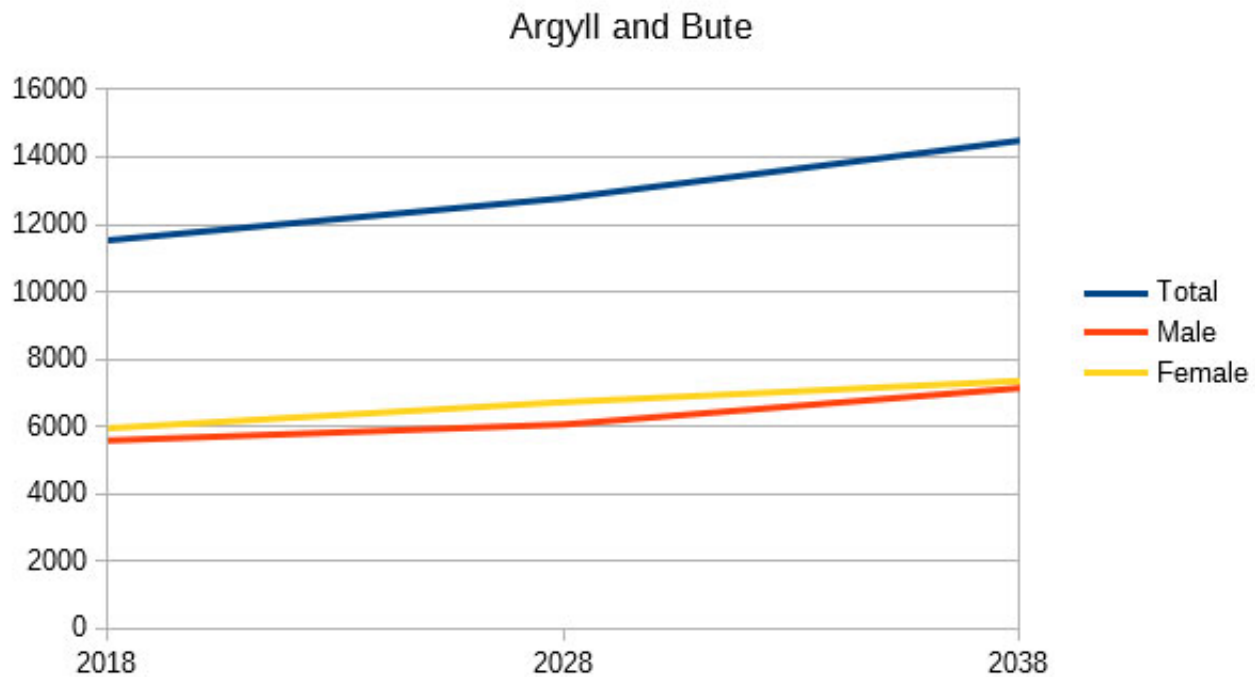
2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	107	309	927	1505	2212	2000	7068
Female	46	81	286	476	1070	2392	3146	7496
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	120	301	789	1123	2674	2858	7873
Female	41	85	269	411	1182	2735	4003	8726
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	106	339	778	1434	3061	3806	9531
Female	42	72	286	394	1027	3095	4977	9890

Table 7: Projected number of people with hearing loss in Angus Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



### 8.1.4 Argyll and Bute

Figure 13: Projected number of people with hearing loss in Argyll & Bute Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

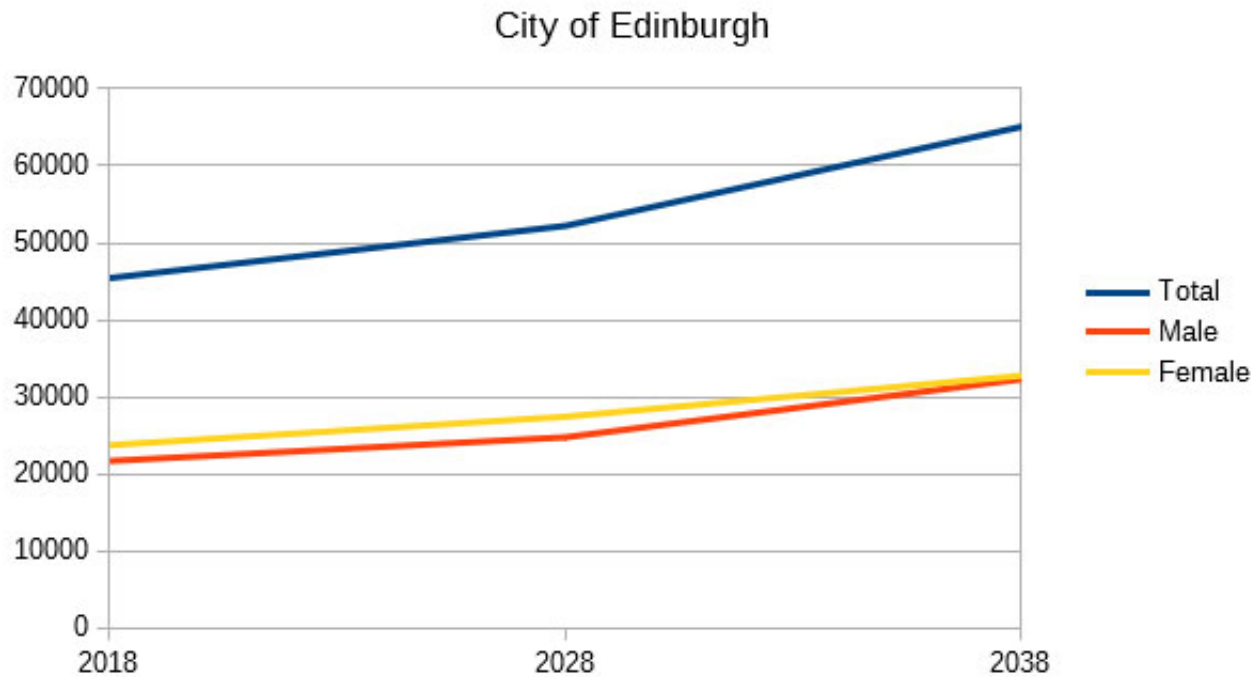


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	71	227	713	1242	1880	1441	5581
Female	30	49	204	377	868	1975	2441	5943
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	5	86	196	584	922	2151	2112	6057
Female	25	48	165	308	949	2128	3097	6719
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	5	65	231	515	1152	2455	2714	7135
Female	24	39	166	258	789	2397	3674	7347

Table 8: Projected number of people with hearing loss in Argyll & Bute Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.5 City of Edinburgh

Figure 14: Projected number of people with hearing loss in City of Edinburgh Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

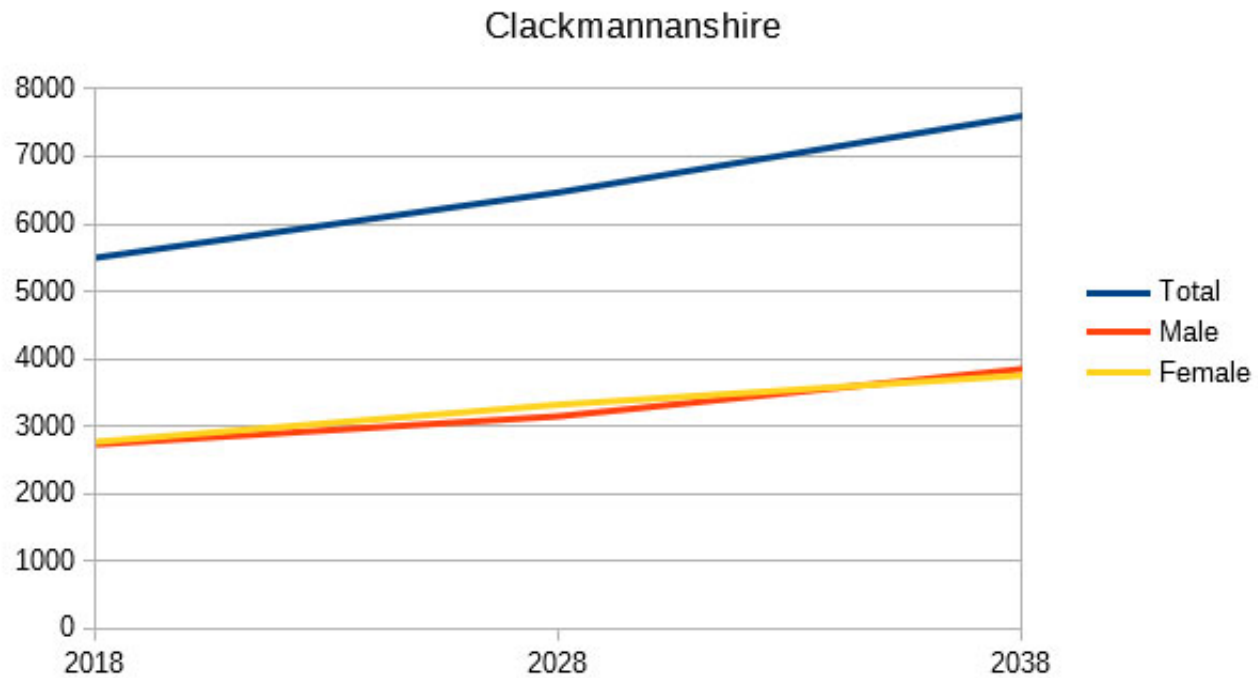


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	57	720	1414	3280	4498	5802	5911	21683
Female	380	505	1184	1646	3234	6769	10016	23735
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	51	829	1631	3284	3669	7571	7723	24758
Female	330	580	1392	1602	3839	8224	11465	27431
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	54	702	1863	3737	5459	9472	11011	32296
Female	346	485	1592	1855	3730	9966	14779	32753

Table 9: Projected number of people with hearing loss in City of Edinburgh Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

## 8.1.6 Clackmannanshire

Figure 15: Projected number of people with hearing loss in Clackmannanshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

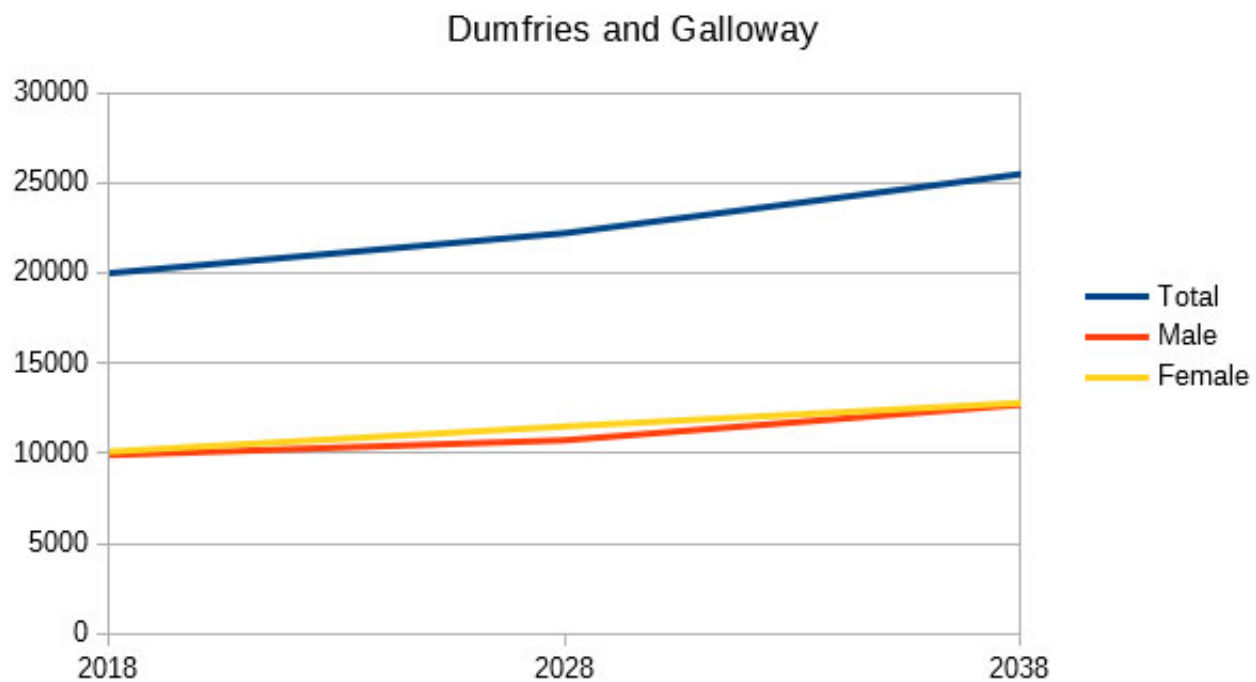


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	4	49	149	418	624	848	639	2730
Female	22	36	135	214	445	932	983	2768
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	4	50	122	362	478	1079	1051	3146
Female	19	37	115	188	508	1098	1354	3320
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	4	46	127	304	623	1266	1476	3846
Female	18	31	119	160	447	1285	1690	3752

Table 10: Projected number of people with hearing loss in Clackmannanshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.7 Dumfries and Galloway

Figure 16: Projected number of people with hearing loss in Dumfries & Galloway Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

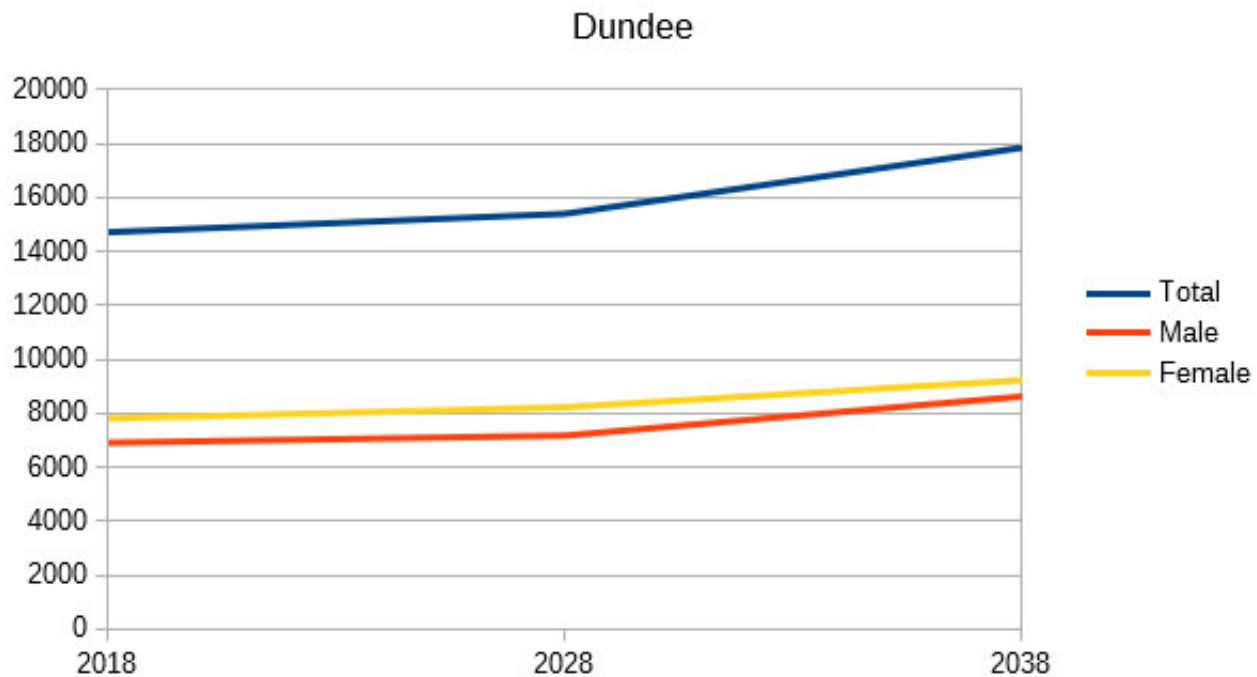


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	10	118	369	1233	2107	3211	2850	9897
Female	58	91	351	651	1469	3346	4122	10088
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	9	131	318	963	1555	3754	3988	10718
Female	51	97	296	531	1668	3693	5151	11487
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	117	355	852	1861	4271	5225	12689
Female	50	81	318	455	1385	4313	6184	12786

Table 11: Projected number of people with hearing loss in Dumfries & Galloway Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.8 Dundee City

Figure 17: Projected number of people with hearing loss in Dundee City Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

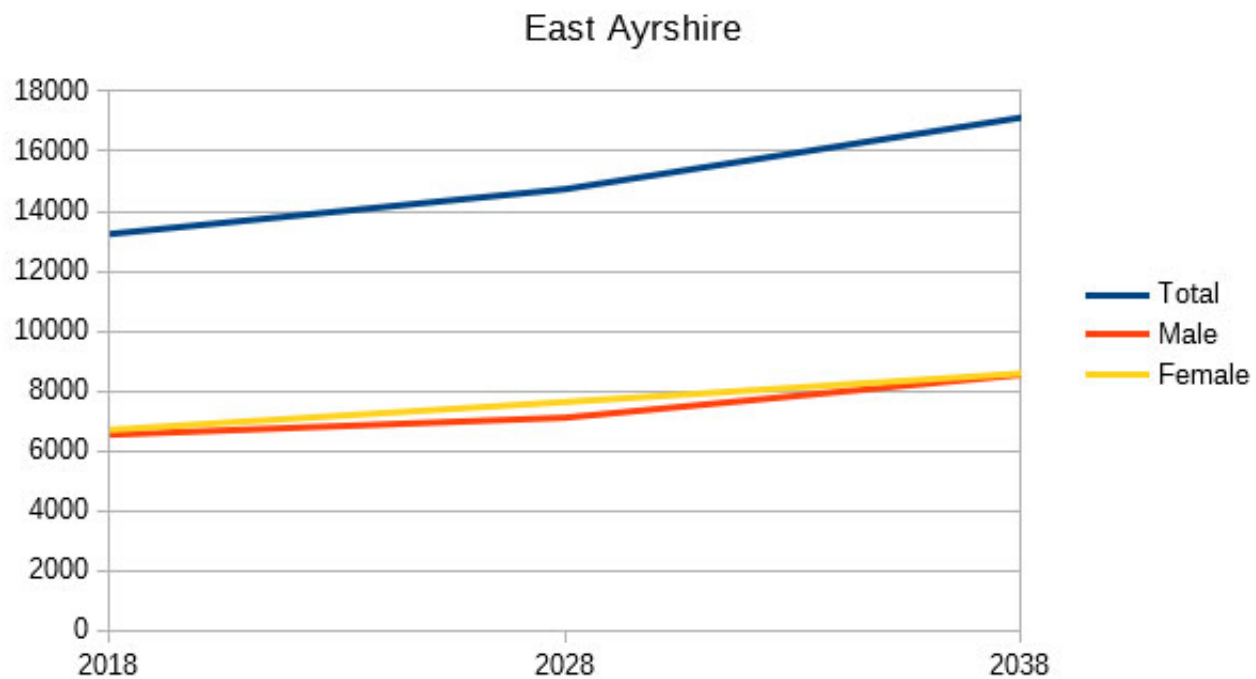


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	17	161	344	981	1428	2024	1954	6909
Female	106	119	309	534	1037	2291	3409	7804
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	14	188	364	820	1087	2324	2375	7174
Female	90	136	333	428	1227	2467	3542	8224
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	15	156	427	871	1368	2719	3065	8621
Female	93	110	380	455	989	2998	4197	9223

Table 12: Projected number of people with hearing loss in Dundee City Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.9 East Ayrshire

Figure 18: Projected number of people with hearing loss in East Ayrshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

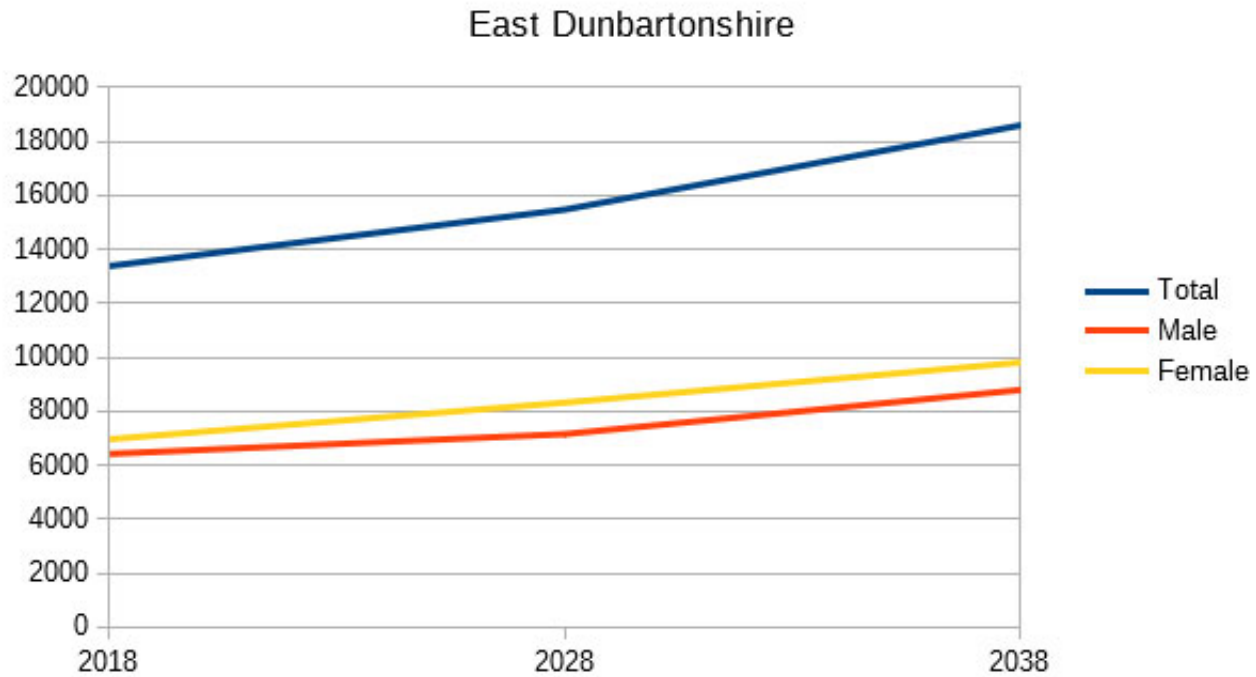


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	9	116	338	959	1442	2054	1619	6536
Female	46	89	317	509	1033	2202	2505	6700
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	127	303	819	1112	2402	2335	7107
Female	47	90	281	441	1207	2518	3045	7629
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	107	334	748	1428	2851	3061	8538
Female	47	74	285	394	1055	3042	3685	8581

Table 13: Projected number of people with hearing loss in East Ayrshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.10 East Dunbartonshire

Figure 19: Projected number of people with hearing loss in East Dunbartonshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

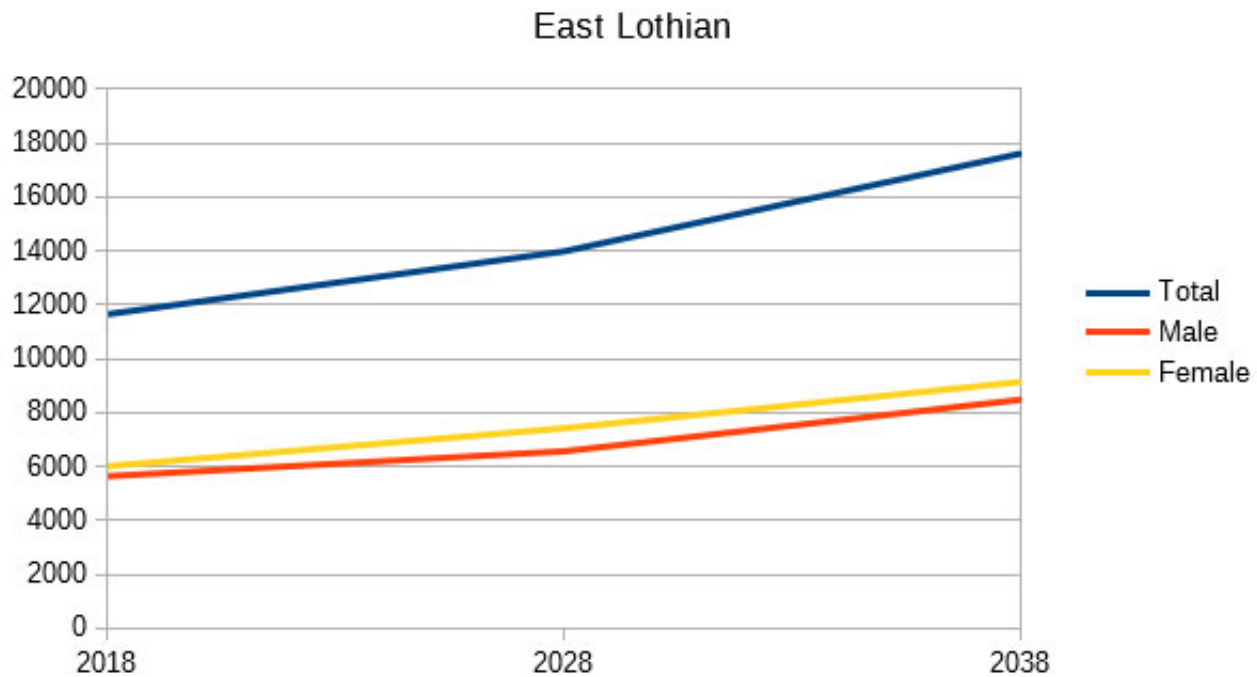


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	90	284	857	1289	1885	2004	6418
Female	41	70	277	469	964	2174	2967	6963
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	111	288	696	971	2257	2823	7154
Female	36	82	277	392	1117	2522	3894	8320
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	93	343	716	1177	2588	3864	8789
Female	40	69	318	395	937	2975	5071	9805

Table 14: Projected number of people with hearing loss in East Dunbartonshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.11 East Lothian

Figure 20: Projected number of people with hearing loss in East Lothian Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



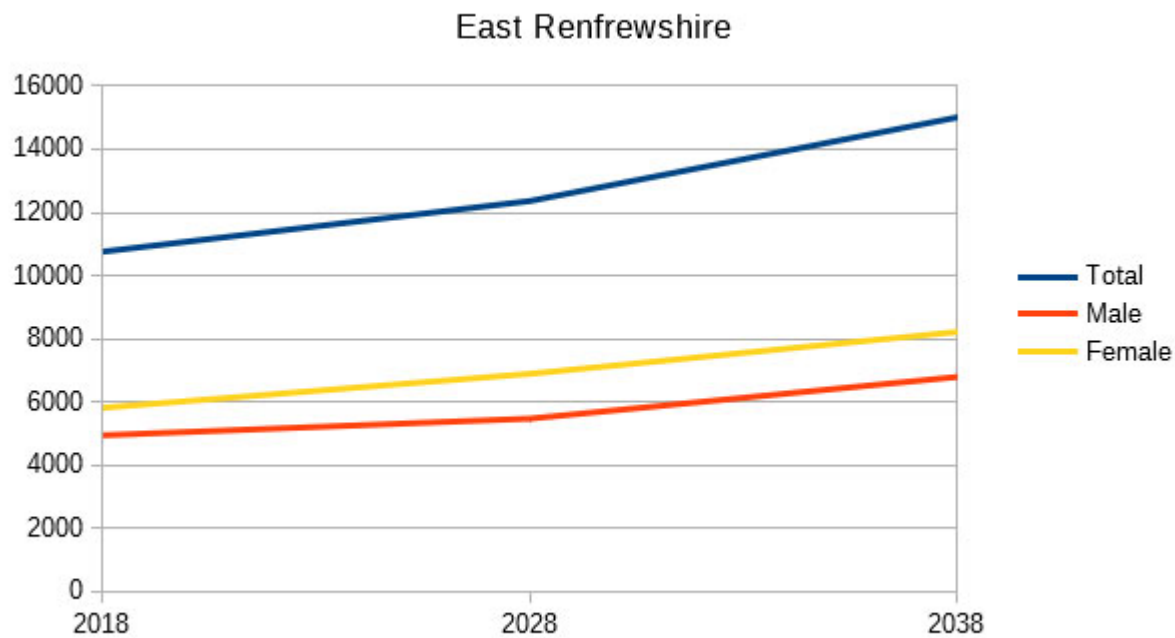
2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	95	299	840	1186	1726	1486	5638
Female	47	77	283	439	886	1921	2360	6014
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	116	292	761	1006	2179	2206	6566
Female	43	93	279	416	1116	2401	3070	7418
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	103	351	762	1370	2788	3095	8477
Female	45	79	330	421	1068	3066	4129	9137

Table 15: Projected number of people with hearing loss in East Lothian Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



### 8.1.12 East Renfrewshire

Figure 21: Projected number of people with hearing loss in East Renfrewshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

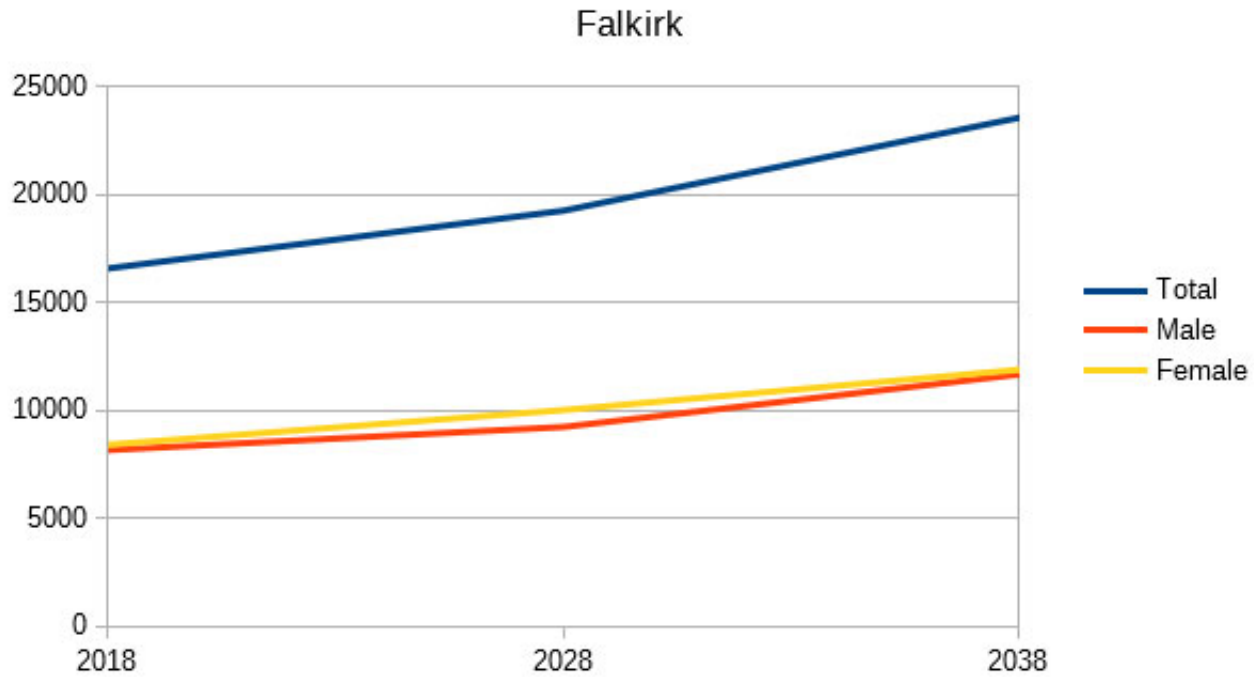


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	78	256	710	1016	1407	1470	4944
Female	38	66	254	386	772	1706	2590	5812
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	96	270	595	763	1720	2020	5471
Female	37	79	266	335	885	2035	3251	6889
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	84	319	640	953	1978	2811	6793
Female	41	69	313	358	768	2397	4270	8216

Table 16: Projected number of people with hearing loss in East Renfrewshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.13 Falkirk

Figure 22: Projected number of people with hearing loss in Falkirk Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

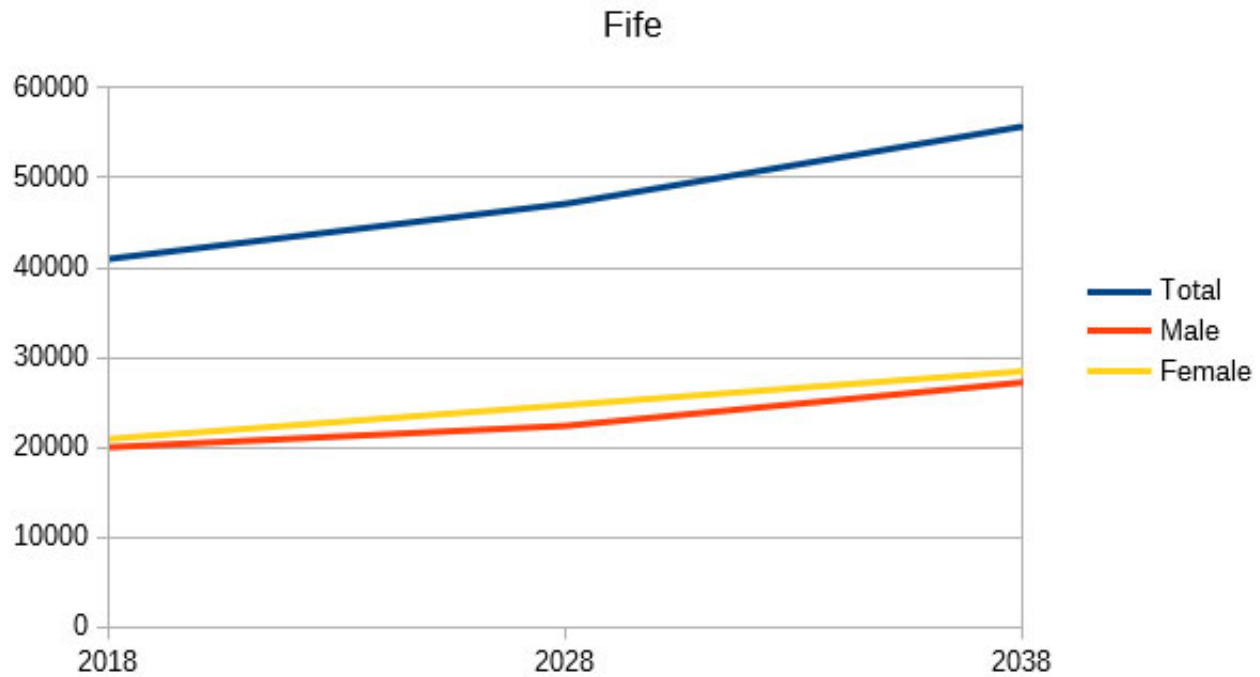


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	12	166	491	1262	1742	2444	2057	8173
Female	70	126	439	639	1282	2689	3174	8419
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	12	184	447	1198	1462	2967	2974	9245
Female	67	131	402	627	1554	3213	4033	10027
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	12	174	495	1101	2075	3813	4012	11682
Female	67	116	419	575	1534	3989	5199	11898

Table 17: Projected number of people with hearing loss in Falkirk Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.14 Fife

Figure 23: Projected number of people with hearing loss in Fife Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

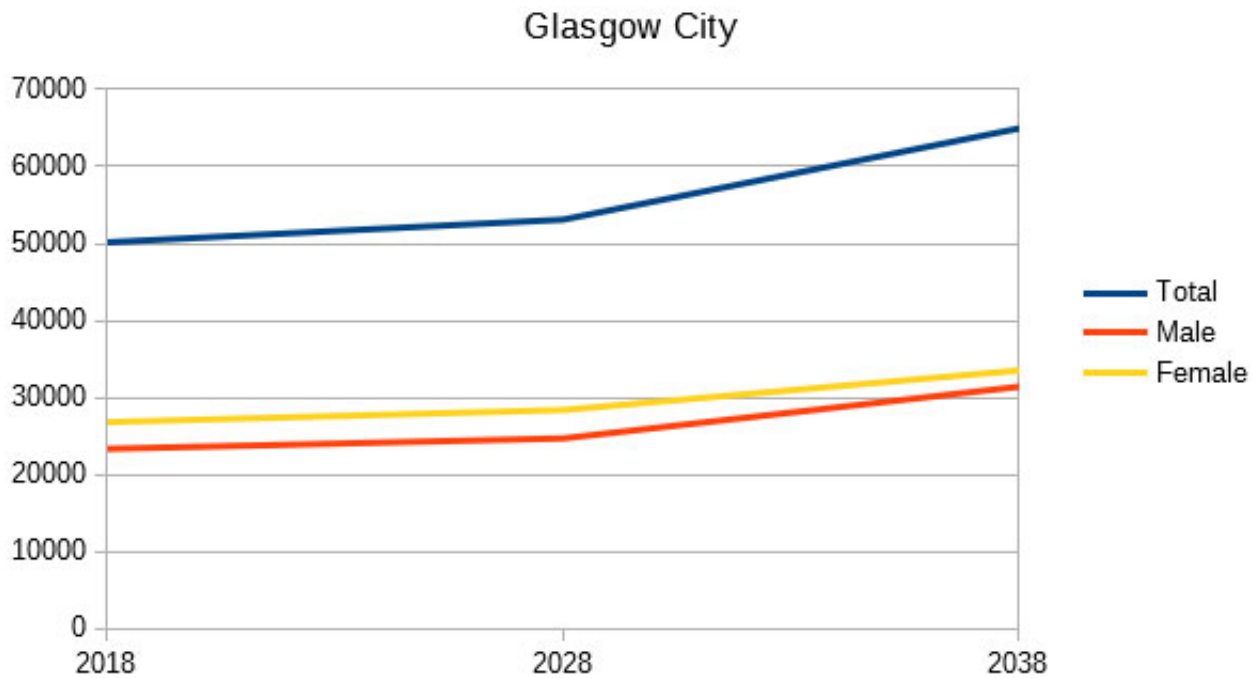


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	29	352	1020	2824	4308	6308	5176	20017
Female	179	269	928	1480	3138	6735	8228	20956
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	27	382	921	2498	3346	7444	7784	22403
Female	161	283	866	1328	3628	7909	10537	24712
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	28	342	1006	2290	4436	8876	10244	27223
Female	165	241	916	1252	3283	9344	13270	28471

Table 18: Projected number of people with hearing loss in Fife Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.15 Glasgow City

Figure 24: Projected number of people with hearing loss in Glasgow City Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

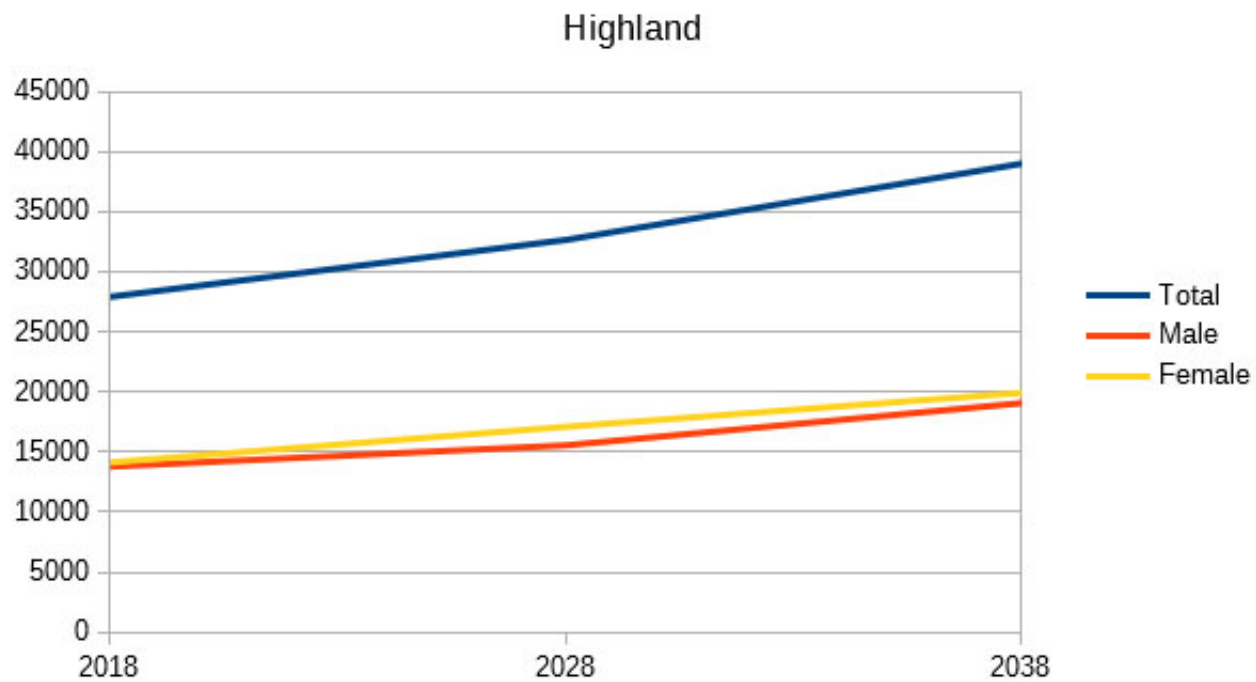


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	73	865	1615	4028	5208	6218	5337	23344
Female	454	583	1431	2208	3762	7484	10884	26806
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	60	987	1810	3670	4348	7780	6047	24702
Female	390	675	1539	1951	4967	8578	10289	28388
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	63	806	2063	4066	5907	10148	8354	31406
Female	406	563	1765	2085	4403	11644	12654	33520

Table 19: Projected number of people with hearing loss in Glasgow City Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.16 Highland

Figure 25: Projected number of people with hearing loss in Highland Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

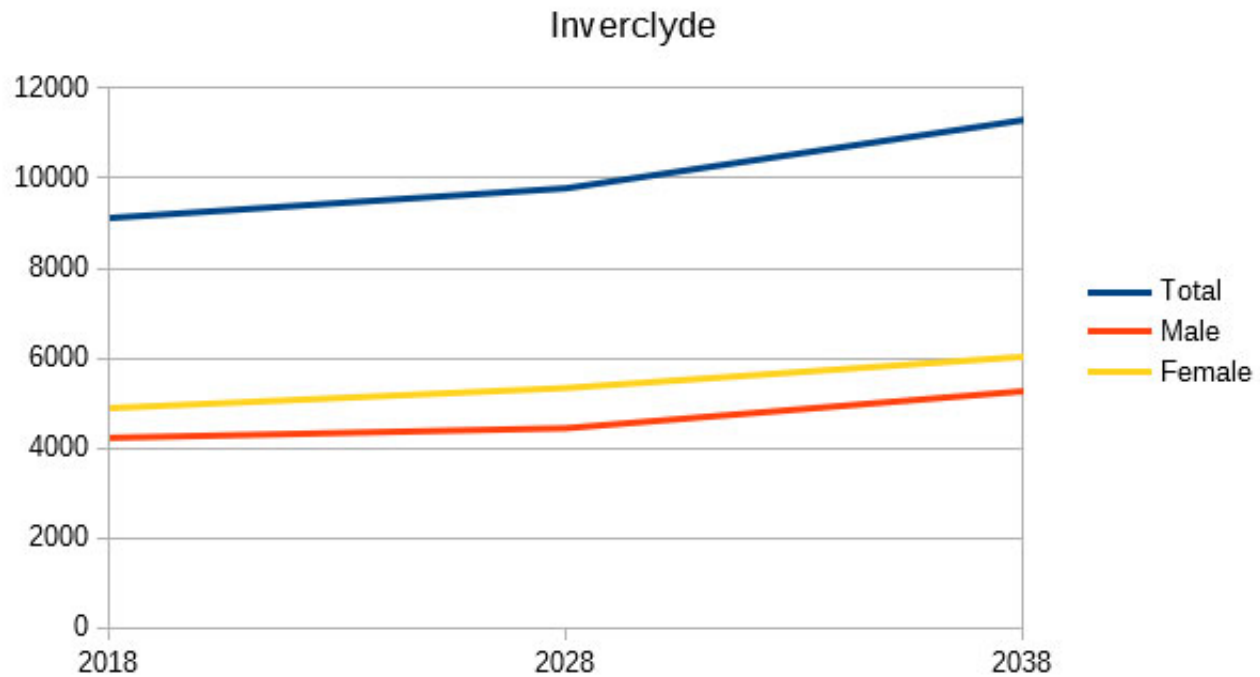


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	16	225	621	1910	3110	4252	3647	13781
Female	91	166	593	992	2163	4540	5583	14128
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	15	239	605	1594	2318	5278	5502	15550
Female	83	167	553	877	2441	5459	7511	17091
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	15	217	647	1559	2920	6054	7652	19064
Female	82	146	560	819	2170	6298	9849	19924

Table 20: Projected number of people with hearing loss in Highland Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.17 Inverclyde

Figure 26: Projected number of people with hearing loss in Inverclyde Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

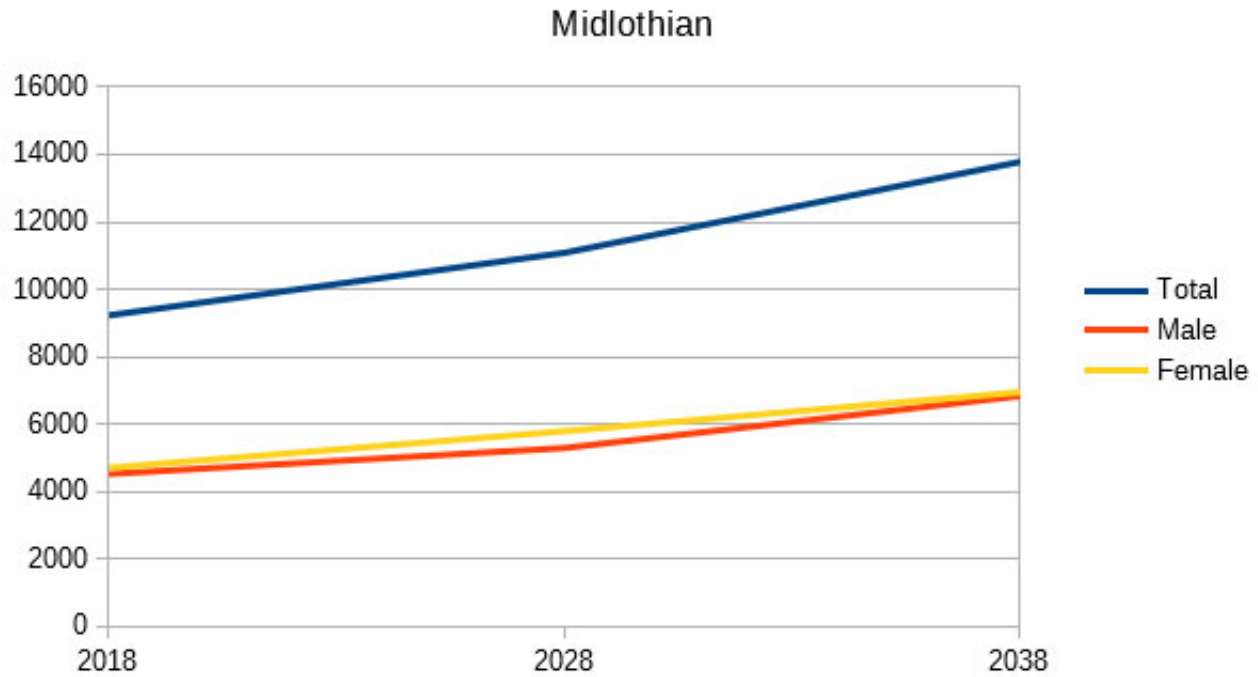


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	6	73	196	665	922	1282	1085	4228
Female	35	54	201	353	693	1476	2075	4888
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	5	73	181	469	744	1479	1490	4442
Female	30	55	170	282	826	1667	2307	5337
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	5	62	183	437	784	1853	1939	5263
Female	29	45	172	239	662	2045	2837	6029

Table 21: Projected number of people with hearing loss in Inverclyde Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.18 Midlothian

Figure 27: Projected number of people with hearing loss in Midlothian Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

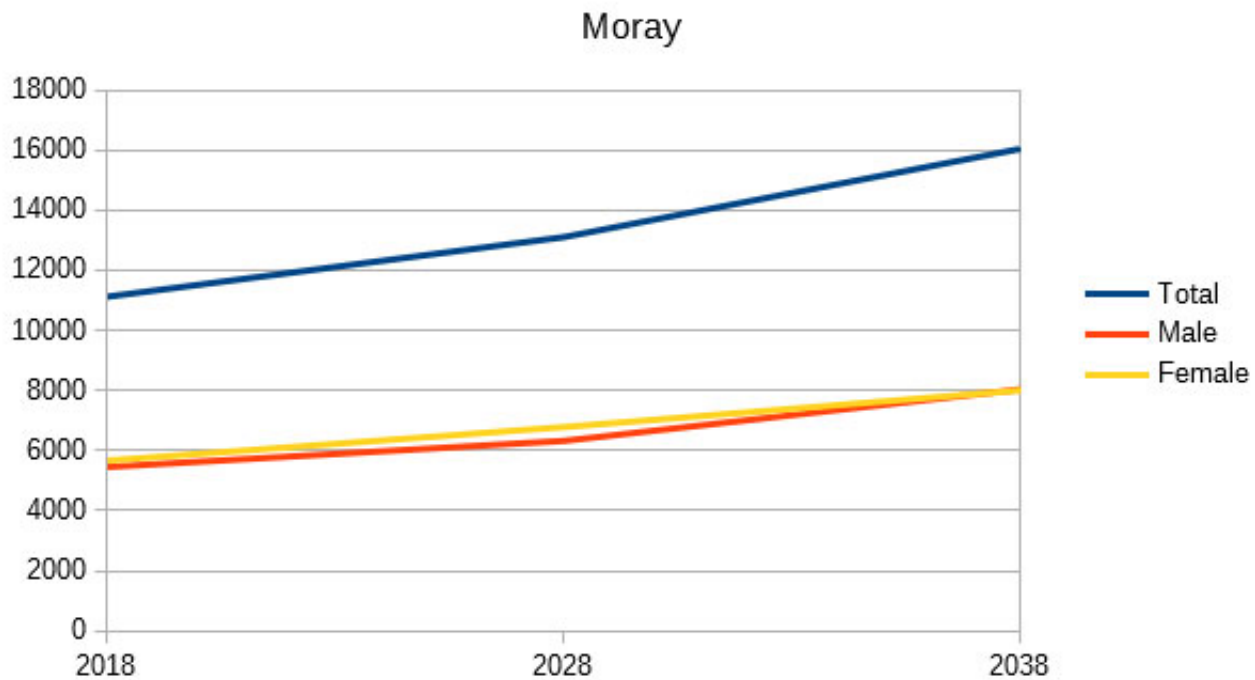


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	6	92	248	664	1008	1392	1111	4522
Female	41	74	235	356	736	1541	1720	4702
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	6	113	279	631	798	1728	1736	5291
Female	39	93	269	351	879	1878	2279	5788
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	99	335	718	1142	2107	2424	6832
Female	46	81	330	407	871	2289	2923	6947

Table 22: Projected number of people with hearing loss in Midlothian Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.19 Moray

Figure 28: Projected number of people with hearing loss in Moray Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



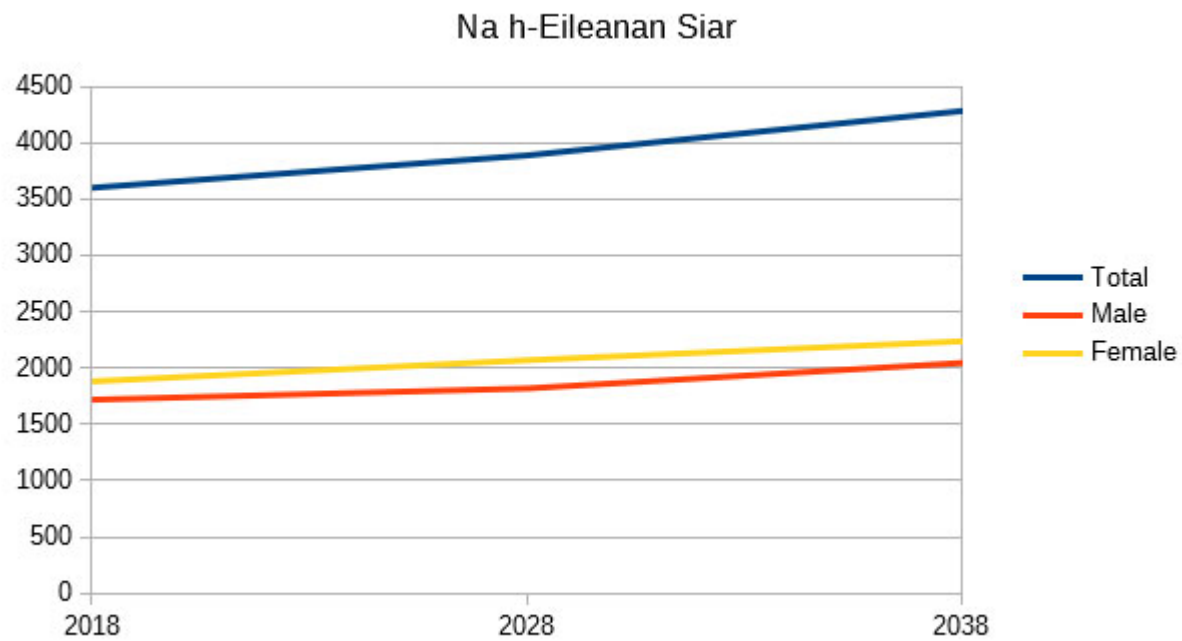
2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	96	282	755	1147	1677	1490	5454
Female	39	68	244	379	825	1827	2284	5667
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	6	113	279	631	798	1728	1736	5291
Female	39	93	269	351	879	1878	2279	5788
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	99	335	718	1142	2107	2424	6832
Female	46	81	330	407	871	2289	2923	6947

Table 23: Projected number of people with hearing loss in Moray Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



### 8.1.20 Na h-Eileanan Siar

Figure 29: Projected number of people with hearing loss in Na h-Eileanan Siar Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

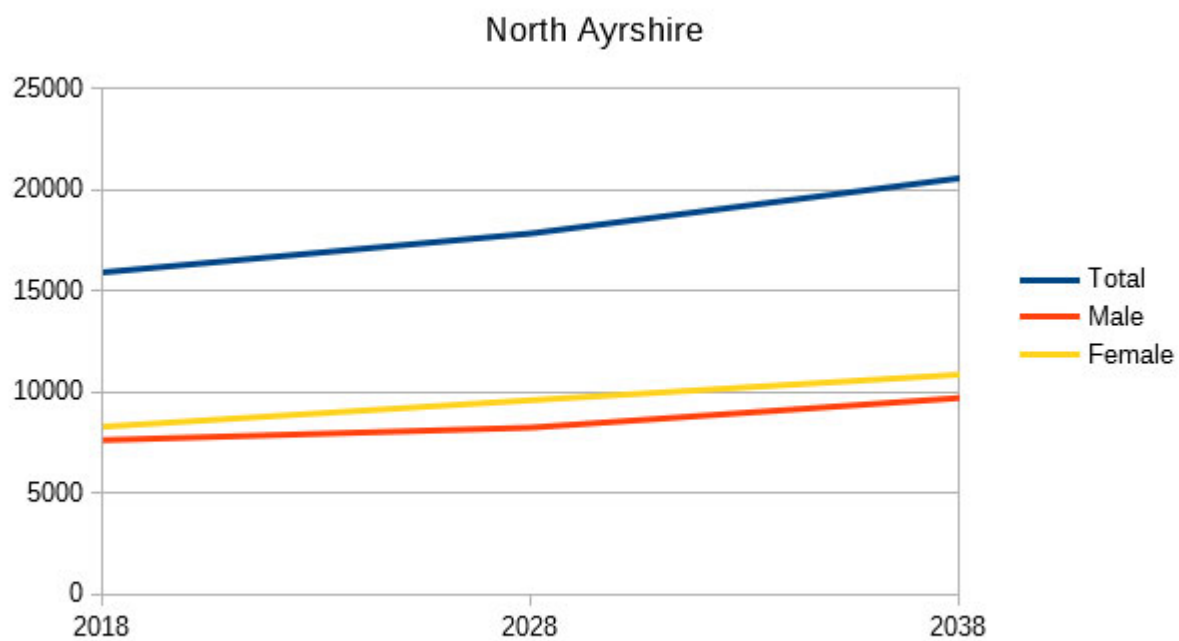


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	2	23	78	223	385	558	450	1718
Female	9	17	66	107	256	588	837	1881
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	1	22	64	187	263	626	655	1818
Female	7	17	57	92	258	639	999	2069
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	1	19	61	155	329	657	822	2045
Female	6	14	55	81	222	651	1207	2236

Table 24: Projected number of people with hearing loss in Na h-Eileanan Siar Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.21 North Ayrshire

Figure 30: Projected number of people with hearing loss in North Ayrshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

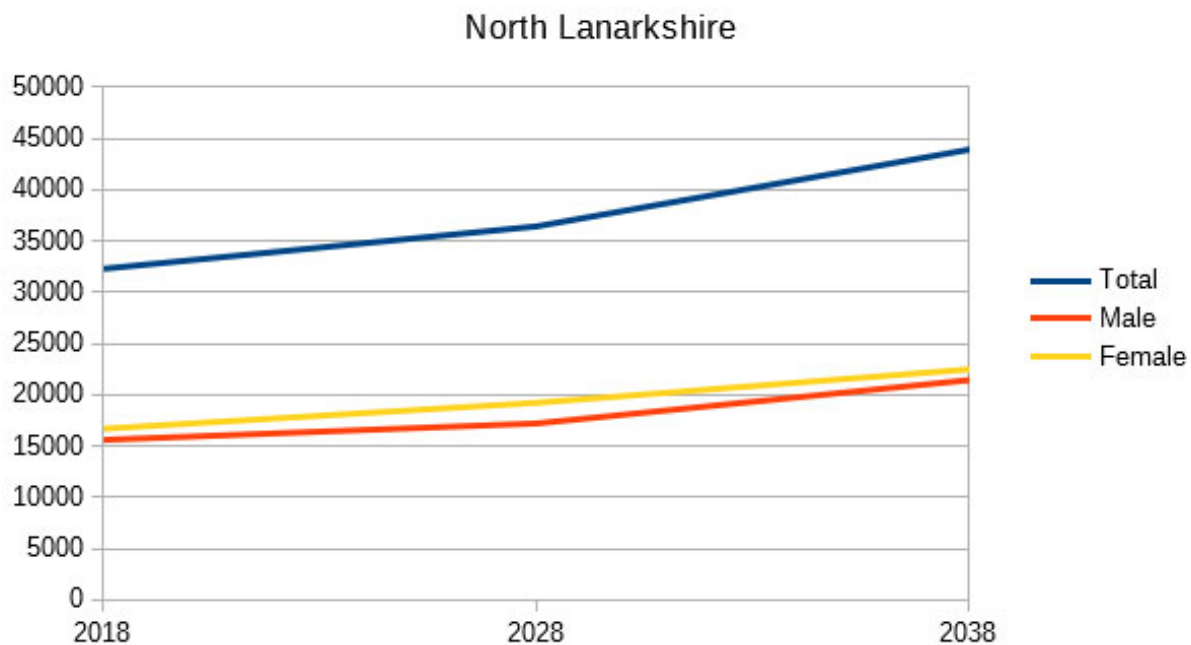


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	10	109	342	1058	1687	2458	1970	7634
Female	59	89	347	587	1263	2770	3181	8296
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	9	117	278	858	1261	2812	2918	8253
Female	51	93	282	504	1457	3146	4072	9605
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	99	301	718	1548	3239	3801	9714
Female	49	78	295	414	1261	3735	5038	10870

Table 25: Projected number of people with hearing loss in North Ayrshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

## 8.1.22 North Lanarkshire

Figure 31: Projected number of people with hearing loss in North Lanarkshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

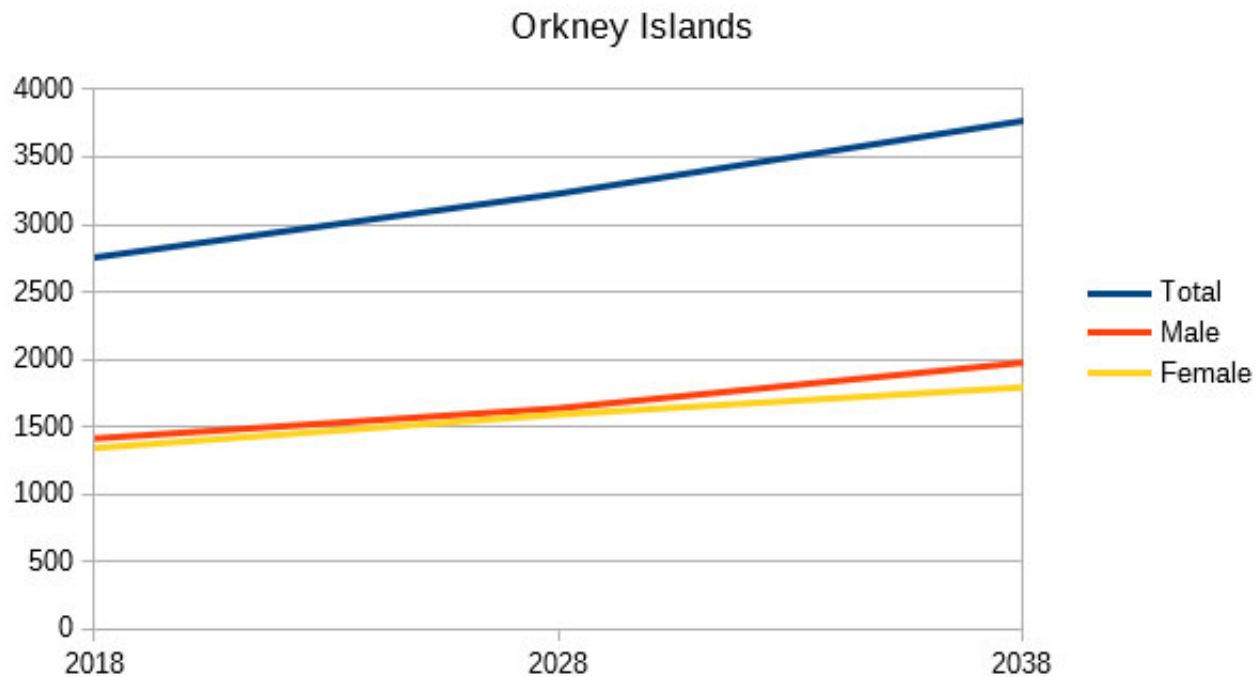


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	27	356	981	2604	3519	4635	3477	15599
Female	160	274	905	1376	2644	5394	5941	16693
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	25	369	902	2337	2885	5654	5035	17207
Female	149	268	848	1267	3248	6394	7046	19221
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	25	325	944	2185	3891	7189	6874	21435
Female	146	236	840	1196	3002	8089	8976	22484

Table 26: Projected number of people with hearing loss in North Lanarkshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.23 Orkney Islands

Figure 32: Projected number of people with hearing loss in Orkney Islands Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

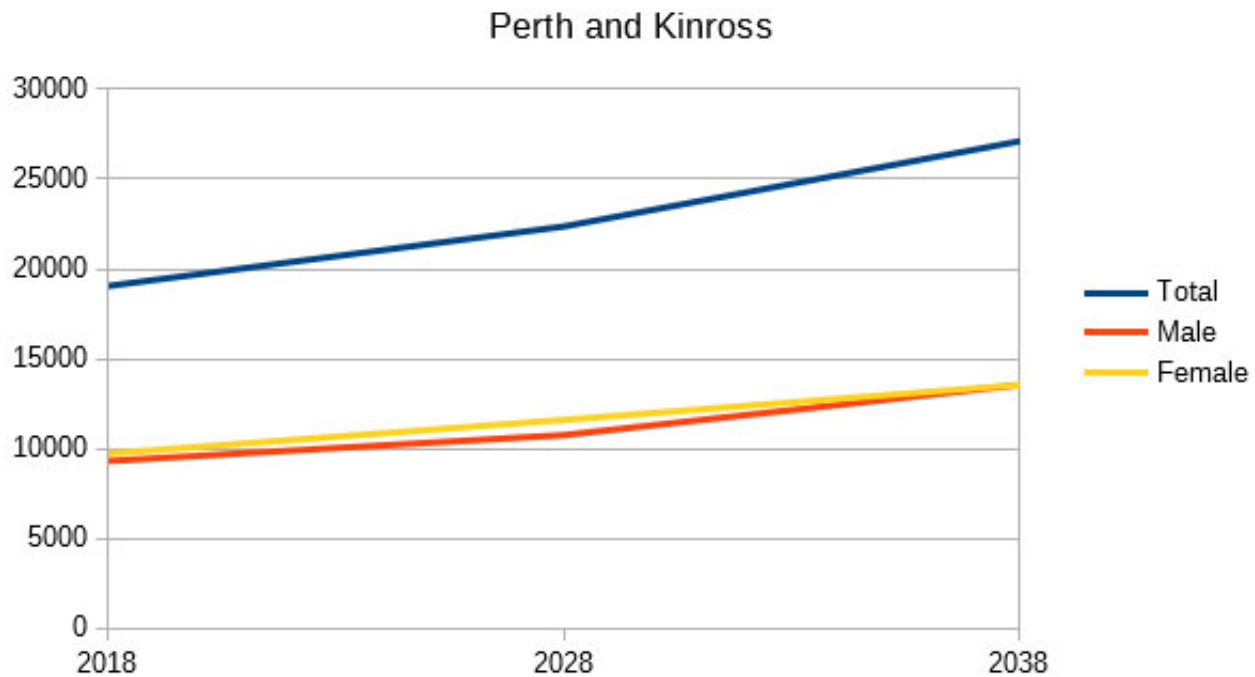


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	2	19	58	194	296	465	378	1413
Female	8	15	53	90	202	459	515	1342
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	1	19	53	155	238	520	649	1637
Female	7	16	48	79	221	512	708	1591
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	1	17	54	143	284	632	842	1974
Female	7	13	51	71	198	573	879	1792

Table 27: Projected number of people with hearing loss in Orkney Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.24 Perth and Kinross

Figure 33: Projected number of people with hearing loss in Perth & Kinross Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

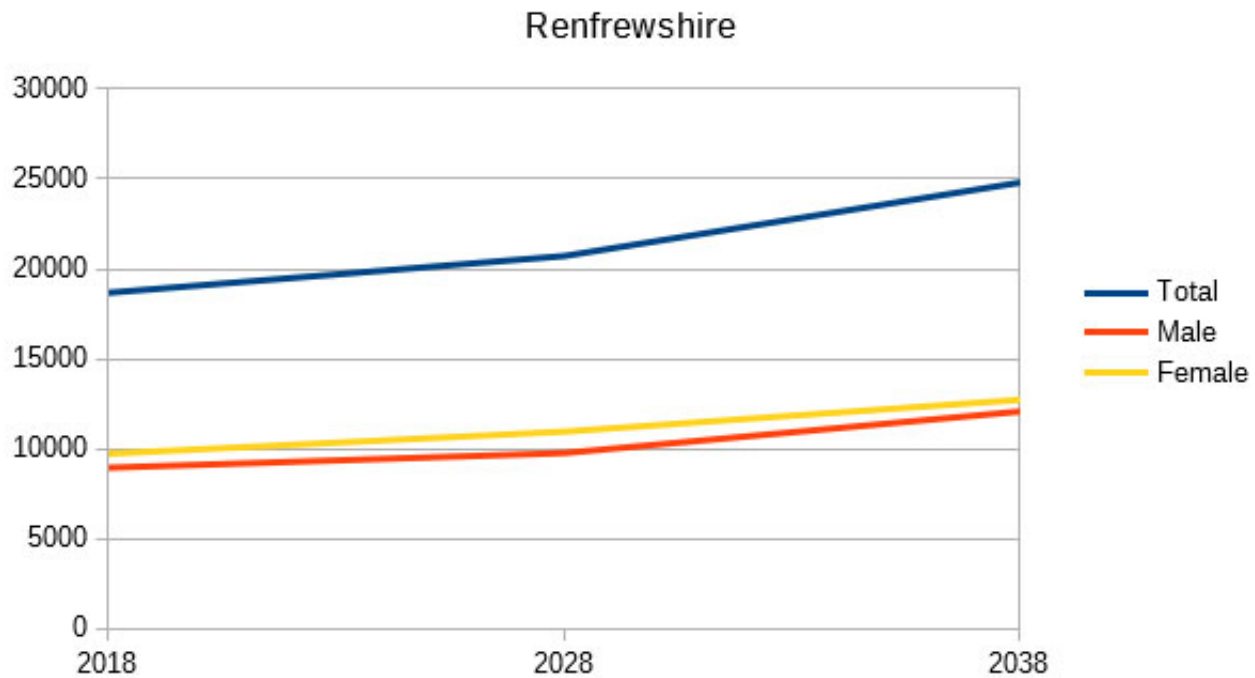


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	11	146	397	1219	1924	2866	2756	9319
Female	60	104	373	621	1368	3060	4149	9734
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	10	161	410	1059	1520	3518	4080	10758
Female	54	111	358	564	1586	3536	5397	11605
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	11	142	447	1087	1985	4215	5663	13549
Female	55	96	382	544	1450	4178	6852	13405

Table 28: Projected number of people with hearing loss in Perth & Kinross Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.25 Renfrewshire

Figure 34: Projected number of people with hearing loss in Renfrewshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

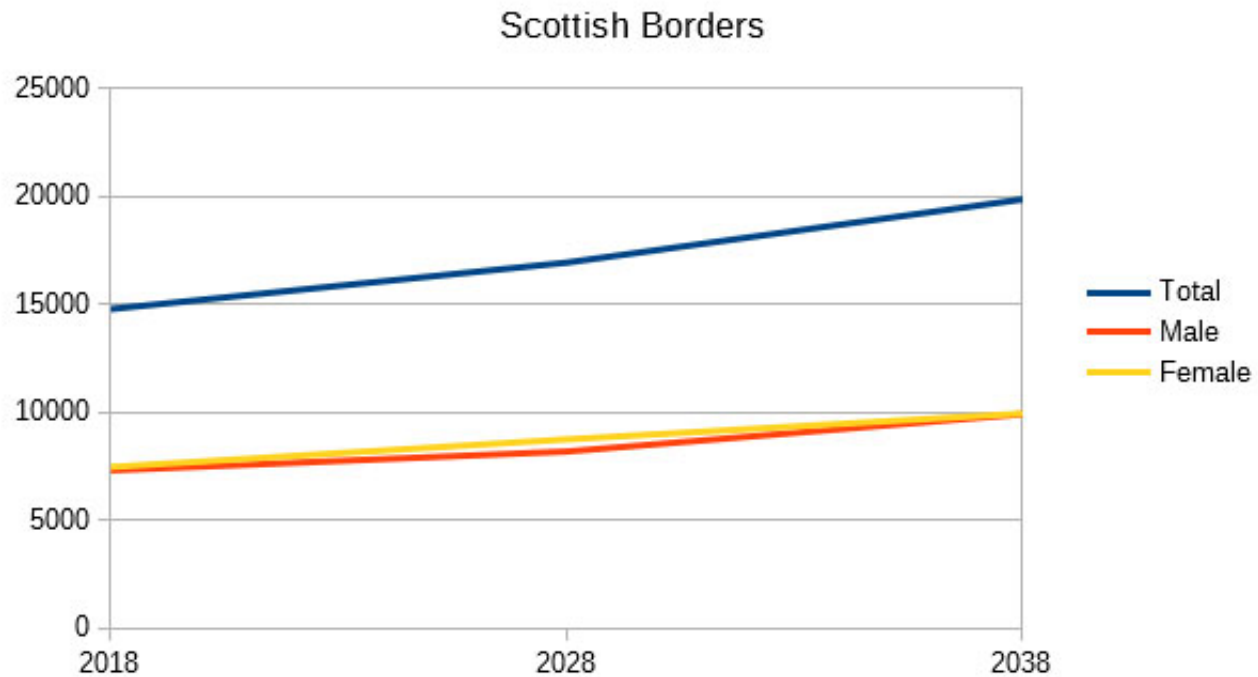


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	14	80	310	974	1613	2393	1932	7303
Female	84	64	293	504	1115	2508	2943	7427
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	13	208	471	1141	1591	3179	3159	9748
Female	75	146	427	637	1771	3504	4390	10876
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	13	175	538	1151	1932	4084	4180	12061
Female	76	125	469	602	1510	4468	5471	12646

Table 29: Projected number of people with hearing loss in Renfrewshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.26 Scottish Borders

Figure 35: Projected number of people with hearing loss in Scottish Borders Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

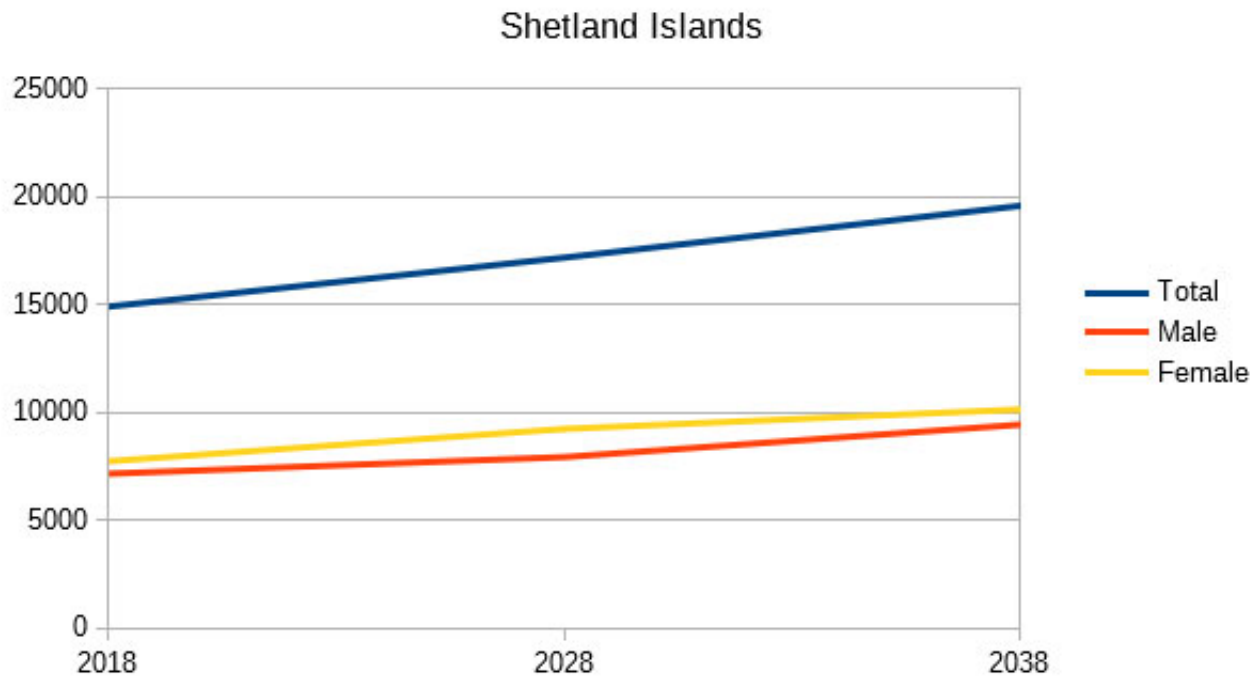


<b>2018</b>	<b>18-30</b>	<b>31-40</b>	<b>41-50</b>	<b>51-60</b>	<b>61-70</b>	<b>71-80</b>	<b>81 plus</b>	<b>Total</b>
Male	7.043	80	310	974	1613	2393	1932	7303
Female	41.55	64	293	504	1115	2508	2943	7427
<b>2028</b>	<b>18-30</b>	<b>31-40</b>	<b>41-50</b>	<b>51-60</b>	<b>61-70</b>	<b>71-80</b>	<b>81 plus</b>	<b>Total</b>
Male	7	98	260	819	1242	2898	2867	8191
Female	38	74	253	445	1293	2875	3777	8756
<b>2028</b>	<b>18-30</b>	<b>31-40</b>	<b>41-50</b>	<b>51-60</b>	<b>61-70</b>	<b>71-80</b>	<b>81 plus</b>	<b>Total</b>
Male	7	98	260	819	1242	2898	2867	8191
Female	38	74	253	445	1293	2875	3777	8756

Table 30: Projected number of people with hearing loss in Scottish Borders Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.27 Shetland Islands

Figure 36: Projected number of people with hearing loss in Shetland Islands Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



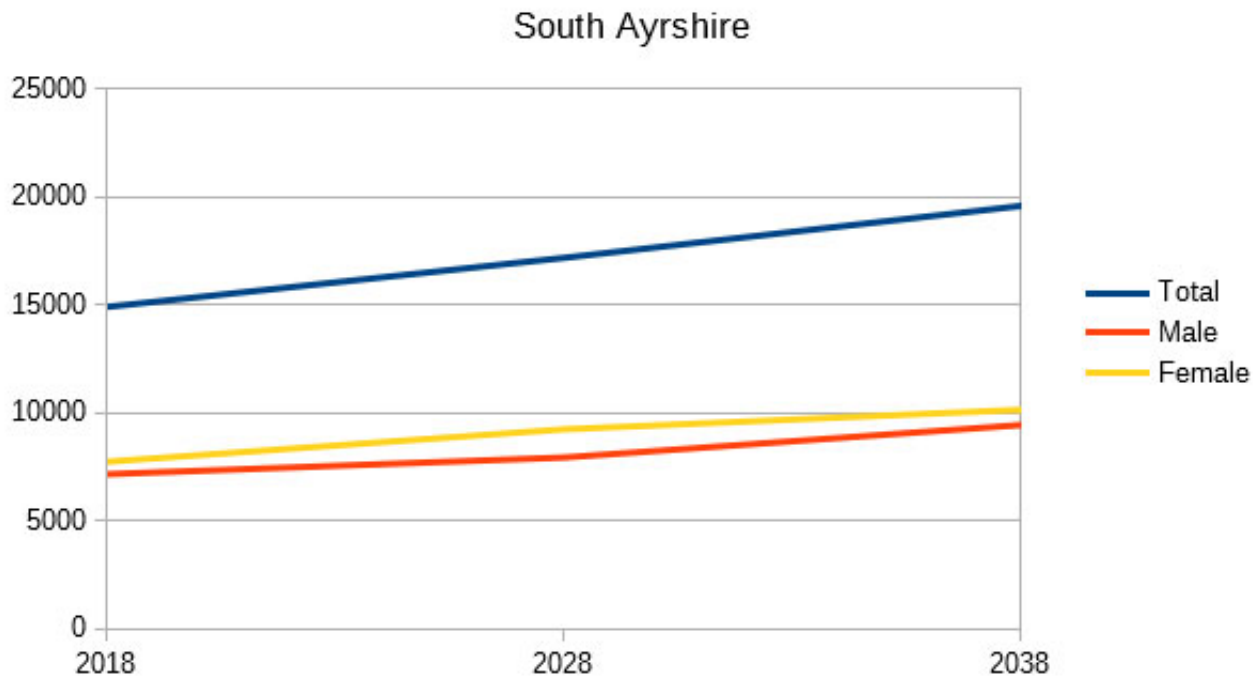
2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	2	24	68	190	288	403	299	1274
Female	10	16	58	86	189	389	463	1211
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	2	25	64	167	217	474	483	1431
Female	8	17	51	79	203	471	625	1455
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	1	22	67	159	286	548	633	1717
Female	8	21	53	71	187	514	823	1678

Table 31: Projected number of people with hearing loss in Shetland Islands Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



### 8.1.28 South Ayrshire

Figure 37: Projected number of people with hearing loss in South Ayrshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

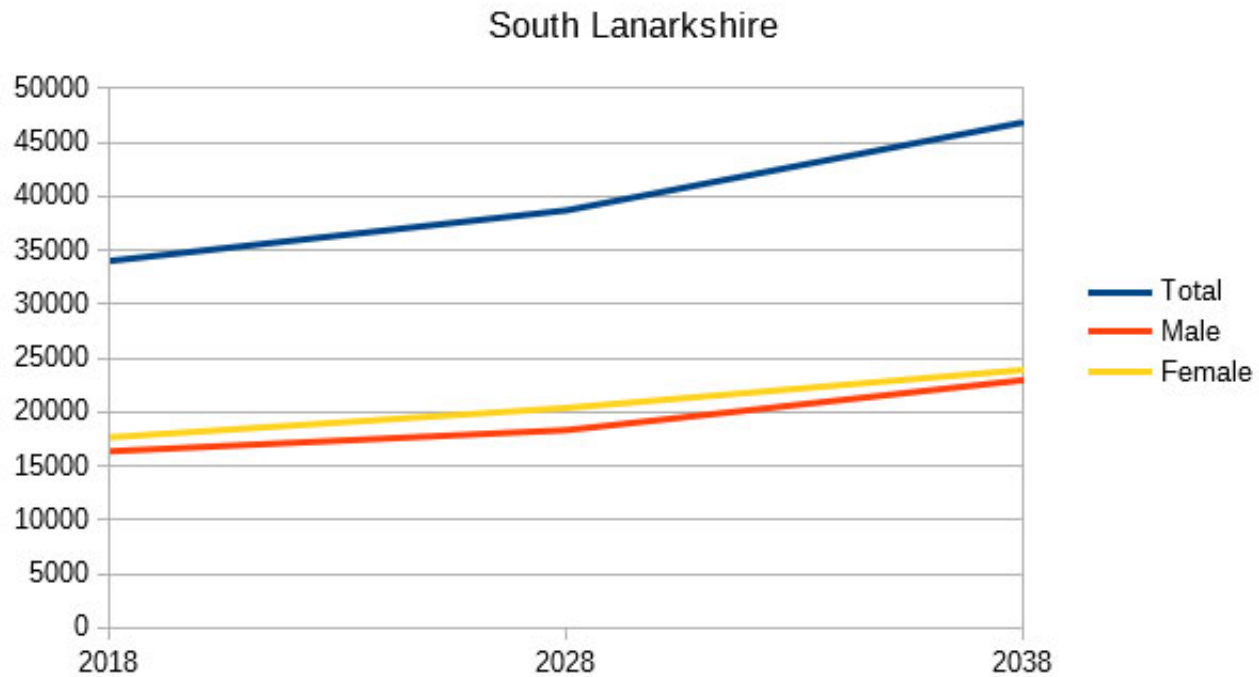


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	90	281	888	1514	2317	2074	7170
Female	44	72	274	489	1116	2547	3207	7749
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	95	239	705	1116	2749	3030	7942
Female	39	71	219	341	1643	2928	4007	9249
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	83	256	611	1345	3107	4038	9446
Female	38	60	236	361	1082	3415	4958	10150

Table 32: Projected number of people with hearing loss in South Ayrshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.29 South Lanarkshire

Figure 38: Projected number of people with hearing loss in South Lanarkshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

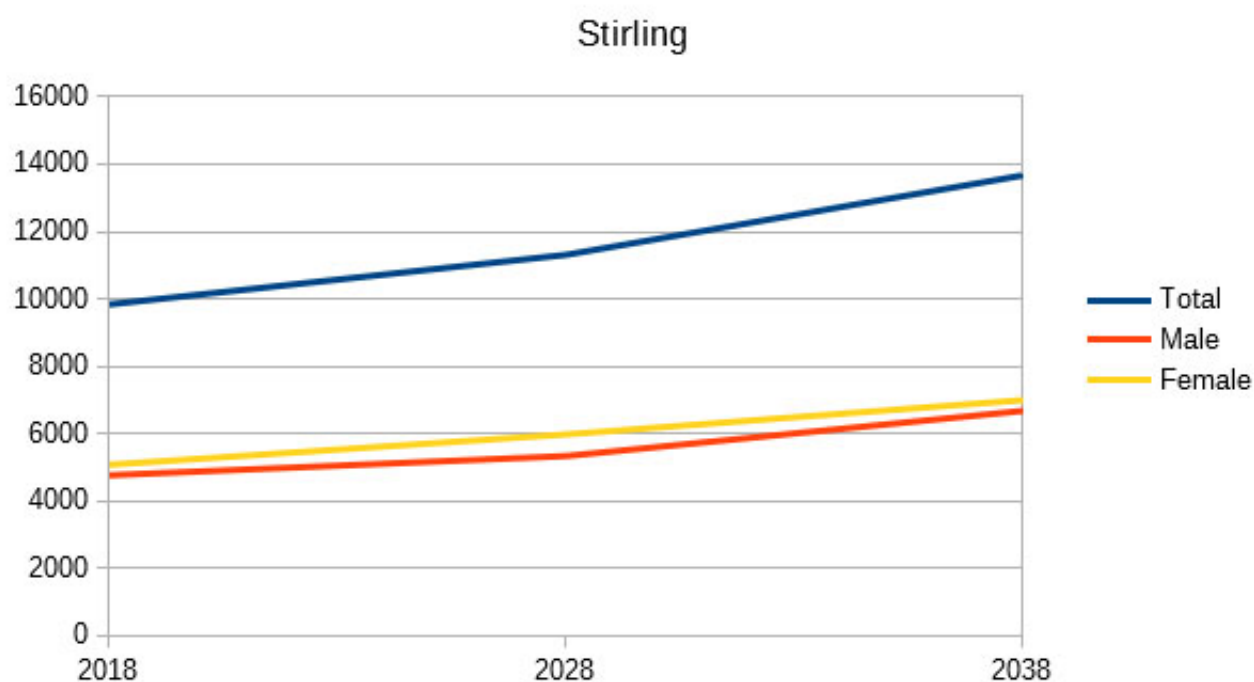


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	24	315	918	2524	3661	4877	4041	16360
Female	139	245	832	1348	2697	5502	6897	17659
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	22	342	840	2237	2925	6165	5797	18327
Female	126	253	793	1189	3229	6656	8136	20381
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	22	300	921	2080	3880	7587	8166	22957
Female	127	218	832	1144	2867	8183	10538	23909

Table 33: Projected number of people with hearing loss in South Lanarkshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.30 Stirling

Figure 39: Projected number of people with hearing loss in Stirling Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

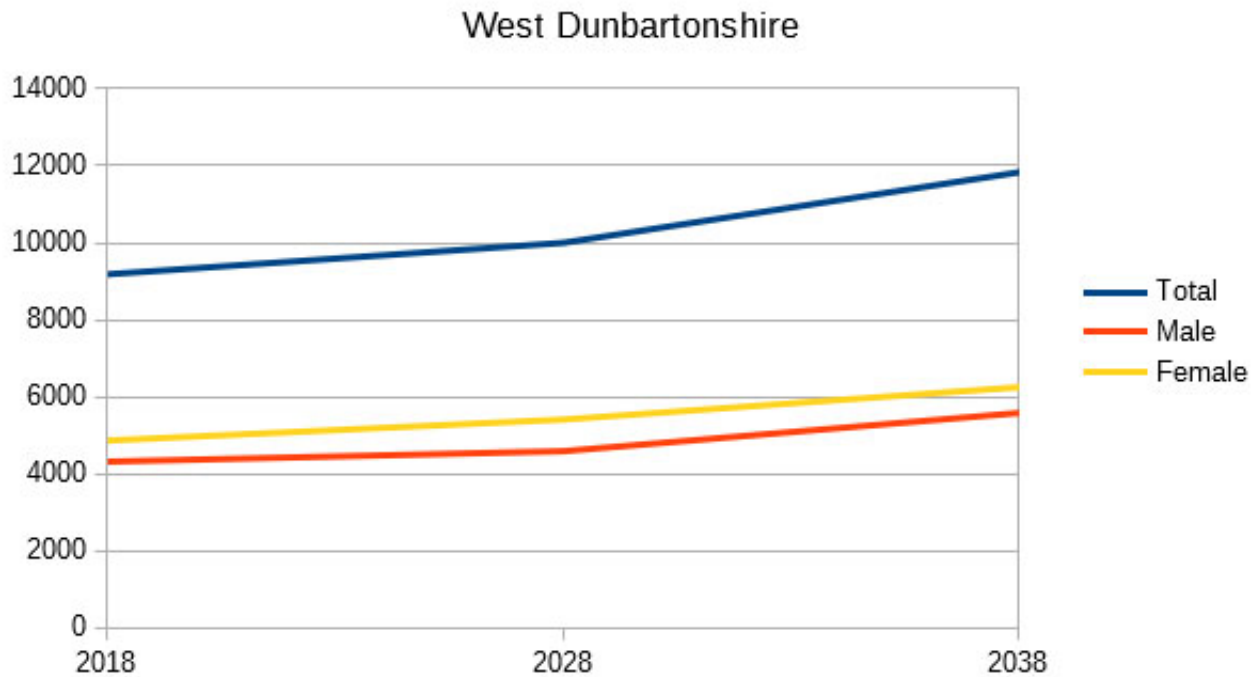


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	9	83	210	710	1022	1453	1273	4761
Female	57	64	198	371	714	1632	2038	5074
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	101	239	633	839	1712	1800	5331
Female	51	80	228	352	893	1769	2601	5973
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	8	88	282	607	1123	2160	2403	6671
Female	52	69	274	335	854	2267	3140	6990

Table 34: Projected number of people with hearing loss in Stirling Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.31 West Dunbartonshire

Figure 40: Projected number of people with hearing loss in West Dunbartonshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

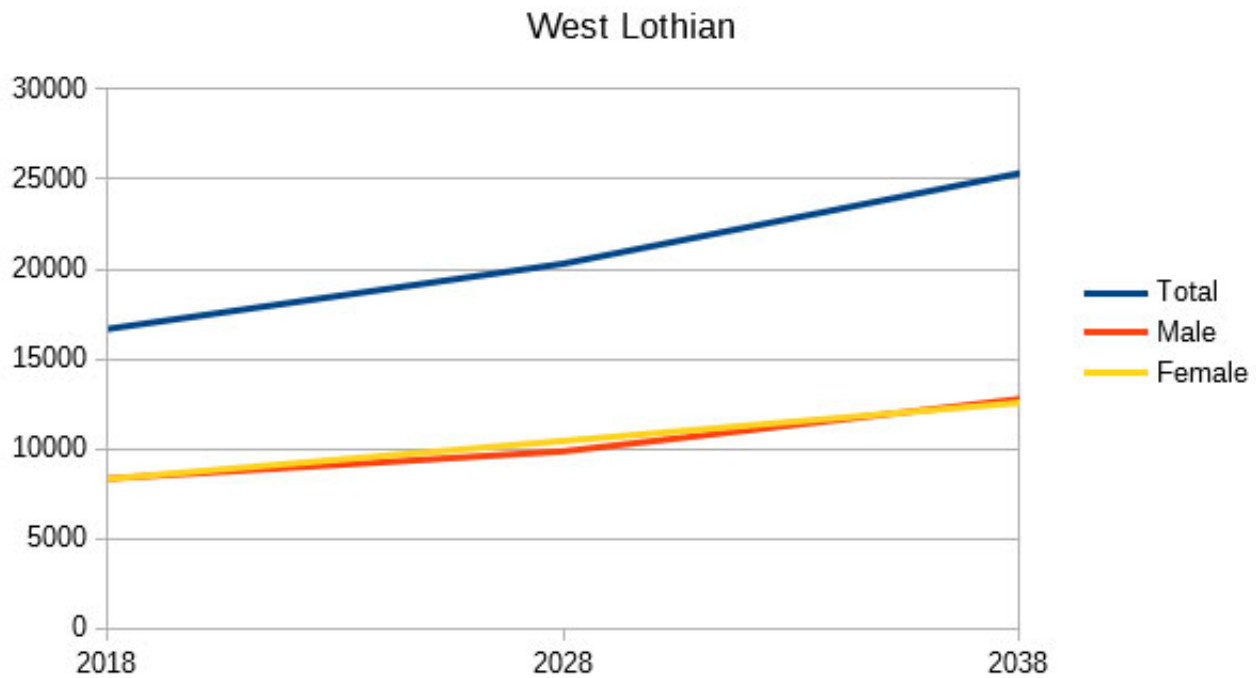


2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	7	88	228	720	1006	1262	1004	4316
Female	43	68	227	393	762	1488	1882	4863
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	6	94	215	555	807	1572	1337	4587
Female	38	72	204	317	915	1797	2065	5408
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	6	76	231	536	936	1966	1827	5580
Female	40	59	215	288	742	2233	2671	6249

Table 35: Projected number of people with hearing loss in West Dunbartonshire Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

### 8.1.32 West Lothian

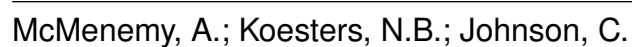
Figure 41: Projected number of people with hearing loss in West Lothian Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



2018	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	14	196	555	1393	1812	2511	1862	8344
Female	82	150	498	719	1330	2730	2819	8328
2028	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	14	223	528	1319	1581	3096	3098	9859
Female	79	163	483	688	1682	3286	4062	10442
2038	18-30	31-40	41-50	51-60	61-70	71-80	81 plus	Total
Male	15	204	599	1275	2231	4136	4306	12766
Female	79	145	525	674	1610	4241	5286	12560

Table 36: Projected number of people with hearing loss in West Lothian Council 2018 to 2038. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

Figure 42: Projected number of people with hearing loss 2018. Female and Male for each council. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



## 8.2.2 2028

Figure 43: Projected number of people with hearing loss 2028. Female and Male for each council. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).



## 8.2.3 2038

Figure 44: Projected number of people with hearing loss 2038. Female and Male for each council. Numbers based on populations projections by the National Records of Scotland (NRO 2016-base) and hearing loss prevalence rates by Davis (1995).

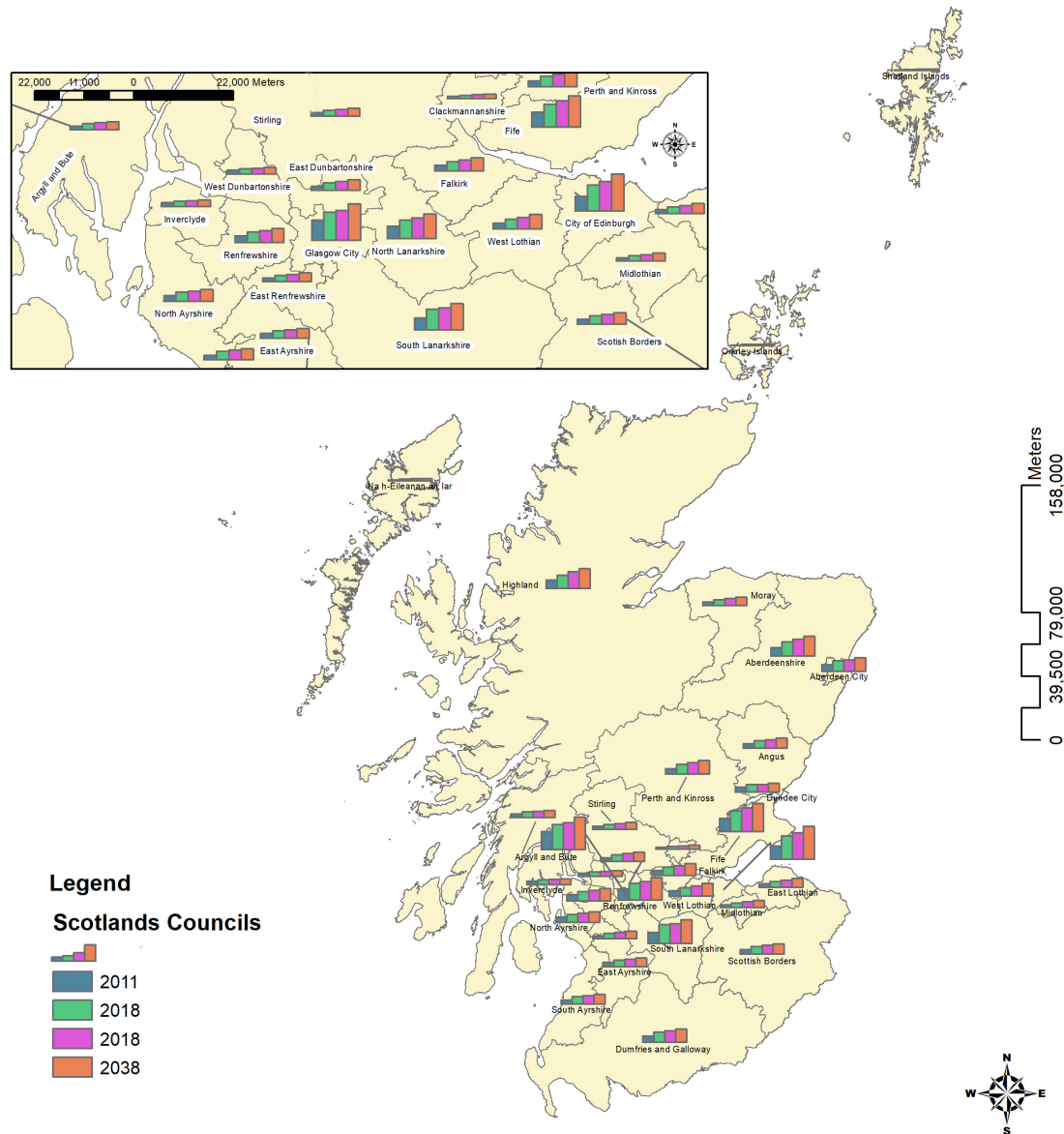




## 8.3 Map

Figure 45: Map showing projected figures for each Council in Scotland for 2018, 2028, 2038.

## Forward projection of deafness 2011 - 2038 for Scottish Councils



Scottish Census 2011

Scottish Government

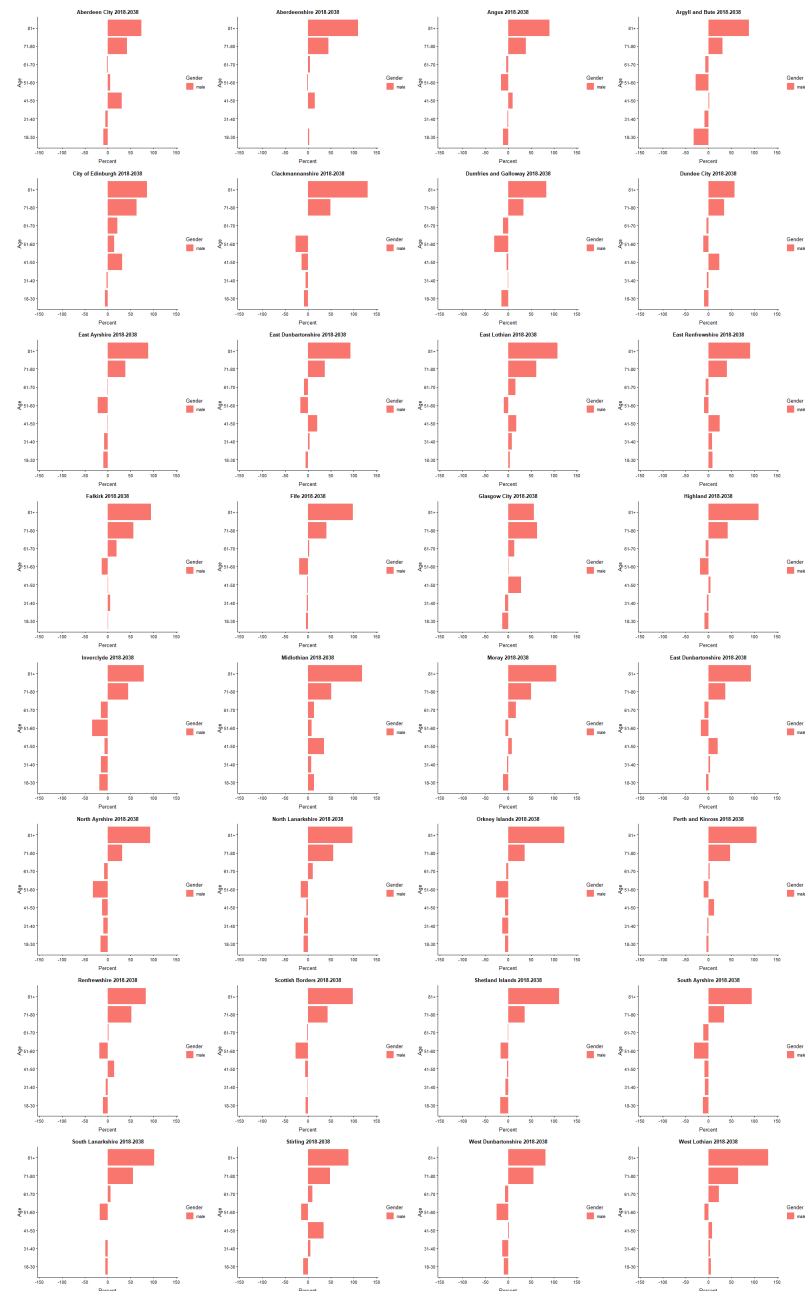
Davis, Adrian. Hearing in adults: the prevalence and distribution of hearing impairment and reported hearing disability in the MRC Institute of Hearing Research's National Study of Hearing. London: Whurr Publishers, 1995, p. 822.

Authors: Andrena McMenemy, Dr Nils Koesters (c) 2018

## 8.4 Gender based population pyramids

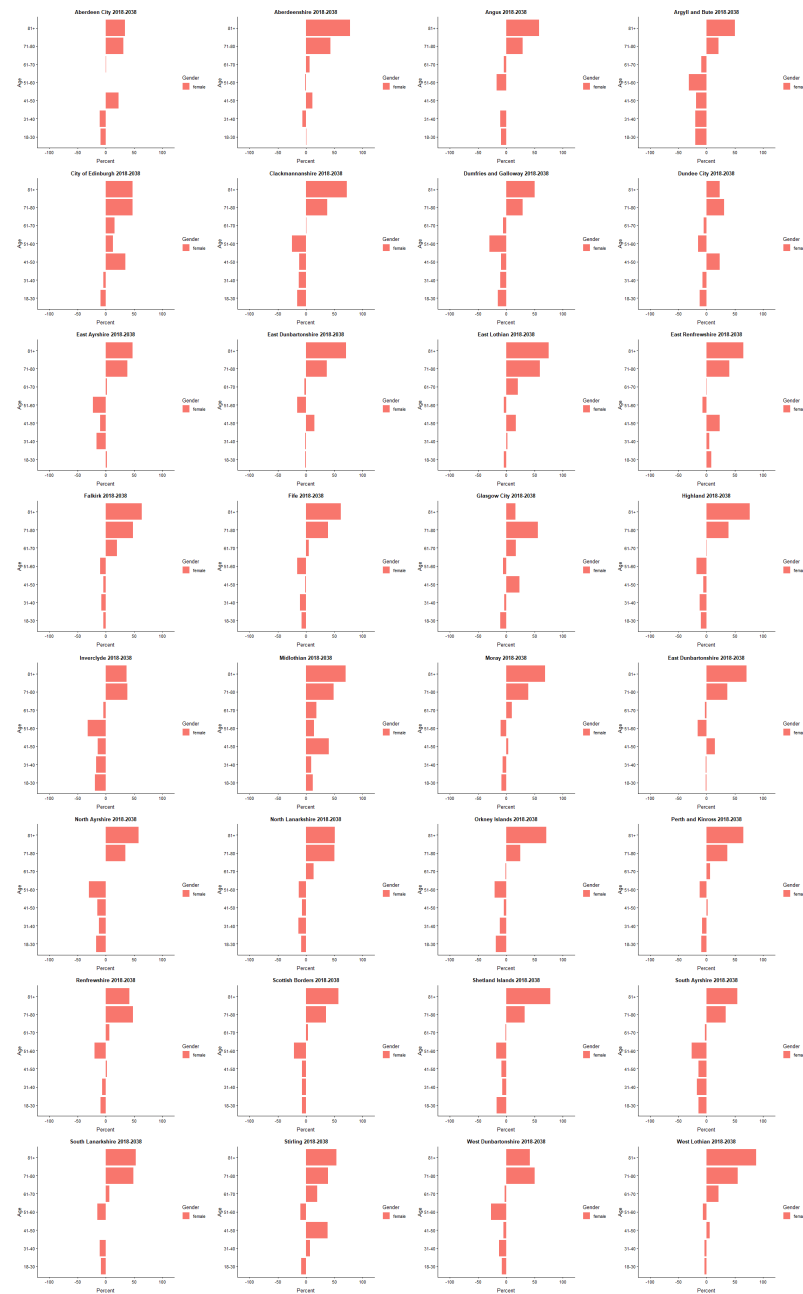
### 8.4.1 Male

Figure 46: Male pyramids of the projected percentage change of the number of deaf people in each Council in Scotland from 2018 to 2038.



## 8.4.2 Female

Figure 47: Male pyramids of the projected percentage change of the number of deaf people in each Council in Scotland from 2018 to 2038.



## 9 Acknowledgements

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